ENERGY INCENTIVES FOR BUSINESS

Programs to increase efficiency and productivity in Ontario

Ministry of Energy

Honourable Philip Andrewes Minister

Foreword

The Province of Ontario is strongly committed to increasing the awareness of the Ontario business community of the wide range of energy-related programs and services that are available. As part of this commitment, the Ministry of Energy has developed ENERGY INCENTIVES FOR BUSINESS to serve as a reference guide to the private sector.

This book represents a unique effort to condense and organize up-to-date information on a variety of energy-related tax benefits, financial incentives, technical assistance programs and information services that are available from many Ontario and federal ministries, departments and agencies.

The information is presented in a manner that will enable you to quickly identify the various forms of assistance that are applicable to your particular requirements. In order to enhance accessibility to the programs and services, an address has been provided with each description. Special sections have been included that describe and categorize the various types of assistance that are available to the municipalities, the farming community and homeowners.

It is hoped that this comprehensive source of information will enhance the potential of Ontario to improve productivity and efficiency through energy conservation and the development of new sources of energy.

Philip Andrewes
Minister of Energy
Province of Ontario

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The Ministry of Energy and its employees or agents make no warranty, expressed or implied, with respect to the programs, incentives and services described within. It is the responsibility of the user of the book to verify the accuracy of the information contained within. This book has been developed solely for the information of the public.

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GLOSSARY OF ENERGY ACRONYMS

AECL Atomic Energy of Canada Limited
ASA Advisory Services Agreement
ASHRAE American Society of Heating, Refrigerating and Air Conditioning Engineers
BILD Board of Industrial Leadership and Development
BOSS Business Opportunities Sourcing System
CANMET Canada Centre for Mineral and Energy Technology
CASE Counselling Assistance to Small Enterprises
CCA Capital Cost Allowance
CCC Canadian Commercial Corporation
CDE Canadian Development Expenses
CEA Canadian Electrical Association
CEE Canadian Exploration Expenses
CEIC Canada Employment and Immigration Commission
CFS Canadian Forestry Service
CHIP Canadian Home Insulation Program
CIIC/W Canadian Industrial Innovation Centre/Waterloo
CIRA Committee on Industrial Research Assistance (at National Research Council of Canada)
CISTI Canada Institute for Scientific and Technical Information
CLDS Canada Land Data System
CMHC Canada Mortgage and Housing Corporation
CNG Compressed Natural Gas
COGPE Canadian Oil and Gas Property Expense
COSP Canada Oil Substitution Program
CREO Conservation and Renewable Energy Office, Energy Mines and Resources Canada
DERD Division of Energy Research and Development (at National Research Council of Canada)
DRECT Development and Demonstration of Resource and Energy Conservation Technology
DREE Department of Regional Economic Expansion
DSEP Distribution System Expansion Program
EARP Environmental Assessment and Review Process
ECOS Energy Conservative and Oil Substitution Branch, Energy, Mines and Resources Canada
EDP Enterprise Development Program
EFW Energy From Waste
EIC Energy Inquiry Centre (at National Research Council of Canada)
EMR Energy, Mines and Resources Canada
ENC Energy Calendar of Events Data Base
ENERDEMO Canada/Ontario Conservation and Renewable Energy Demonstration Program
ENFOR Energy From The Forest Program
ENG Energy Projects Data Base
ENP Energy Programs Data Base

EODC Eastern Ontario Development Corporation

ERDAF Energy Research and Development in Agriculture and Food Program

ESA Energy Systems Analysis Series of Computer Programs

FBDB Federal Business Development Bank

FEARO Federal Environmental Assessment Review Office

FIRE Forest Industry Renewable Energy Program

HREC Housing Renovation and Energy Conservation Unit, Ministry of Municipal Affairs and Housing

HUDAC Housing and Urban Development Association of Canada

ICAP Industrial Conversion Assistance Program

IERD Industrial Energy Research and Development Program

IRAP Industrial Research Assistance Program

IRDP Industrial and Regional Development Program

ITC Department of Industry, Trade and Commerce

MACH Machinery Program

MENY Ministry of Energy

MTC Ministry of Transportation and Communications

MINTEC Mining Technology Information Data Base

NEB National Energy Board

NEP National Energy Program

NMI National Mineral Inventory

NODC Northern Ontario Development Corporation

NORDA Northern Ontario Rural Development Agreement

NORP New Oil Reference Price

NRCC National Research Council of Canada

NRI Natural Resources Information

NSERC Natural Sciences and Engineering Research Council

NTEP New Technology Employment Program

OCRS Ontario Centre for Remote Sensing

ODC Ontario Development Corporation

OERD Office of Energy Research and Development, Energy, Mines and Resources Canada

OEC Ontario Energy Corporation

OHRP Ontario Home Renewal Program

OGS Ontario Geological Survey

OIC Ontario International Corporation

OMAF Ontario Ministry of Agriculture and Food

OMEP Ontario Mineral Exploration Program

ORF Ontario Research Foundation

PAMP Promotional Aids Marketing Program

PDMP Product Development Management Program

PEMD Program for Export Market Development

PEPPI Program to Encourage Product and Process Innovation

PILP Program for Industry/Laboratory Projects

PIP Petroleum Incentives Program

PRAI Project Research Applicable in Industry

PUSH Purchase and Use of Solar Heating Program

RAP Research Agreements Program

RCDP Remote Community Demonstration Program
RDIP Regional Development Incentives Program
REAP Residential Energy Advisory Program
RRAP Residential Rehabilitation Assistance Program
SBDC Small Business Development Corporations
SBITP Small Business Industry Technology Program
SBMDP Small Business Management Development Program
SBLA Small Business Loans Act
SEEH Super Energy-Efficient Home (R-2000) Program
SESP Science and Engineering Student Program
SOOP Special Old Oil Price Supplement
SPIN Science Procurement Information Network
SWARU Solid Waste Reduction Unit
TAP Technological Assessment Rebate Program
TEMP Transportation Energy Management Program
TIS Technical Information Service
WIA Woodlands Improvement Act

PROGRAM DESCRIPTIONS

TAX INCENTIVES

FEDERAL TAX INCENTIVES

ACCELERATED CAPITAL COST ALLOWANCES

Eligibility: The Accelerated Capital Cost Allowances are applicable to manufacturers of energy equipment and materials. Firms that are investing in air or water pollution control equipment are also eligible for accelerated write-off incentives.

Description: Capital Cost Allowances (CCA's) provide firms in the energy sector with an opportunity to deduct the capital cost of depreciable assets from taxable income. In order to encourage investment in certain assets, enterprises may reduce their taxable income through accelerated write-offs, provided that the asset is used in a specific activity as defined in the Income Tax Act. The Income Tax Act contains a complete list of all Accelerated Capital Cost Allowances.

Accelerated CCA For Machinery and Equipment Used in Manufacturing or Processing (Class 29):
The cost of machinery and equipment purchased after May 8, 1972 and before November 12, 1981, for use in manufacturing or processing goods for sale or lease in Canada, may be written off in two years.

Up to 50 per cent of the original costs may be claimed as depreciation in the year that the asset is purchased. The balance may be claimed in any subsequent year.

Manufacturing equipment purchased after November 12, 1981 may be written off over three years (up to 25 per cent the first year, up to an additional 50 per cent in the second year and the balance in any subsequent year).

If the accelerated capital cost allowances do not apply to your particular assets, the depreciation rate is usually 20 per cent, calculated on a declining balance basis.

Accelerated CCA for Pollution Control (Class 24 and 27)
Capital expenditures undertaken to control air and water pollution may be fully written off over two years at 50 per cent per year. The expenditure must be made before November 12, 1981. If the purchase is made after November 12, 1981, the eligible items may be written off in three years at 25, 50 and 25 per cent per year respectively. Expenditures on structures, machinery and equipment, as designated by the federal Minister of the Environment, are eligible for the fast write-off incentive.

Without the accelerated capital cost allowance, this equipment would have a depreciation rate between 5 per cent and 20 per cent, calculated on a declining balance basis.

In addition, accelerated write-offs are available for specified energy-conservation materials and equipment. (See Class 34 — Energy Conservation Equipment Fast Write-Off)

Contact: Tax Interpretations
Revenue Canada
P.O. Box 100, Station Q
Toronto, Ontario
M4T 2L7
(416) 869-1500

For Class 24 and 27
Environmental Protection Service
Environment Canada
Place Vincent Massey
351 St. Joseph Boulevard
Hull, Quebec
K1A 1C8
(613) 997-2057

CAPITAL COST ALLOWANCES (CCA's)

Eligibility: Enterprises involved in mineral exploration and development activities are eligible for Capital Cost Allowance (CCA) tax incentives (Class 10 or 28).

Description: CCA's are available for various assets used in the mining industry. Increased CCA's are available for certain assets acquired before the start of commercial production at a new mine, or for assets acquired in the course of, and used explicitly for, expanding an existing mine. CCA's may be claimed on such assets at a minimum rate of 30 per cent or in an amount equal to the income from the mine, if greater. As a result, income taxes are not usually paid on new-mine investments until the capital investment is recovered. In addition, the cost of clearing and removing overburden at a mine site after the mine has started commercial production may be capitalized and written off at up to a maximum of 100 per cent in any given year.

Contact: Tax Interpretations
Revenue Canada
P.O. Box 100, Station Q
Toronto, Ontario
M4T 2L7
(416) 869-1500

CLASS 34 — ENERGY CONSERVATION EQUIPMENT FAST WRITE-OFF

Eligibility: The Class 34 — Energy Conservation Equipment Fast Write-Off tax incentive applies to specified assets acquired prior to 1985.

Description: Class 34 was added to Schedule B — Capital Cost Classes of the Income Tax Act in May, 1976. Qualifying energy-conservation assets acquired by the taxpayer after May 25, 1976 and before 1980 were eligible for this special two-year write-off. On December 11, 1979, Class 34 provisions were extended to qualifying assets acquired before 1985. Significant additions to the type of assets eligible for fast write-offs were also announced.

Eligible assets that save energy or use renewable sources of energy can be written off over:

- two years if acquired within the eligible period but before November 12, 1981 (up to 50 per cent in the first year and the balance in any subsequent year).
- three years if acquired within the eligible period but after November 12, 1981 (up to 25 per cent in the first year, up to 50 per cent in the second year and the balance in any subsequent year).

Up to December 11, 1979, the regulations covered the capital costs of equipment used to produce heat and/or electrical energy using wood wastes or municipal wastes as a primary energy source. The regulations also applied to the capital costs of equipment used to recover industrial by-product heat.

Coverage has been extended to include:

- active solar equipment used in systems providing water heating
- active solar equipment used in space heating in new buildings
- heat-recovery equipment
- small-scale hydro equipment used in projects with a maximum planned site capacity of 15 mW
- equipment used to produce heat by combustion of a fuel other than oil.

To qualify for the Class 34 incentive, assets must be certified by Energy, Mines and Resources Canada as part of a capital project that conforms to the relevant income tax regulations.

Contact: Tax Incentives Program Secretariat
Energy Conservation and Oil Substitution Branch
Energy, Mines and Resources Canada
580 Booth Street
Ottawa, Ontario
K1A 0E4
(613) 995-9447

EARNED DEPLETION

Eligibility: Enterprises engaged in exploration, development and production activities for minerals, oil and gas qualify for the Earned Depletion tax incentive.

Description: Under the federal Income Tax Act, depletion allowances provide for a deduction of 33-1/3 per cent of specified expenditures required to carry out oil, gas and mineral exploration and development (see Income Tax Act, Section 65, Regulation 1200 - 1212).

The maximum deduction in any given year is 25 per cent of resource profits. Eligible expenditures include certain Canadian Exploration Expenses (CEE) and Canadian Development Expenditures (CDE) and other specified assets. Eligible expenditures therefore qualify for 133-1/3 per cent deduction, because they can be 100-per-cent written off as CDE, CEE or Capital Cost Allowances (see CCA's).

Under the National Energy Program (NEP), several of the depletion incentives offered under the Income Tax Act have been replaced by the Petroleum Incentives Program (PIP). After January 1, 1981, the depletion allowance for domestic exploration expenditures incurred by corporations is 33-1/3 per cent of qualifying expenditures, net of any incentive payments received during that year. However, the depletion allowance for domestic exploration expenditures outside the Canada Lands is being phased out over a three-year period. The depletion allowance was reduced to 20 per cent in 1982, 10 per cent in 1983 and will drop to zero in 1984. The depletion allowance for conventional oil and gas development was eliminated January 1, 1981.

Certain tertiary recovery projects are eligible for a depletion allowance earned at a rate of 33-1/3 per cent of qualifying expenditures, net of any incentive payments, incurred in 1981 and subsequent years. In all cases, earned depletion will be deductible up to a maximum of 25 per cent of resource income. Any taxpayer (corporate or individual) must have resource profits to claim the Earned Depletion tax incentive. These changes introduced under the National Energy Program (NEP) do not affect the mining industry.

In the April 1983 Federal Budget, the following change was announced for earned depletion on mine exploration expenses.

The availability of the depletion deduction is being enhanced in order to encourage increased investment in mining exploration. This proposal will help the mining industry attract exploration financing and will be of particular benefit to the junior mining companies. Currently, exploration expenses related to the search for mining properties earn depletion at a rate of $1 for every $3 of eligible expenditure. However, the earned depletion can be deducted only from resource profits. For eligible exploration expenses incurred after April 19, 1983 the earned depletion will be deductible from any income

source. The deduction for earned depletion will be limited to 25 per cent of a taxpayer's income.

The new provision will allow taxpayers whose main income source is not resource-related to use the depletion allowance earned on their mining exploration expenses.

Under the Memorandum of Agreement between the Government of Canada and the Government of Alberta relating to Energy Pricing and Taxation dated September 1, 1981, earned depletion in the Canada Lands will be phased out according to the following schedule: 33 per cent in 1982, 20 per cent in 1983, 10 per cent in 1984 and zero thereafter. In addition, earned depletion or an equivalent incentive will apply to raw synthetic-oil projects and for certain enhanced oil-recovery projects. Due to the introduction of the New Oil Reference Price (NORP) and the availability of appropriate royalty regimes, these incentives will be made only in exceptional circumstances where they are deemed necessary to encourage a reasonable return on investment.

Contact: Tax Interpretations
Revenue Canada
P.O. Box 100
Station Q
Toronto, Ontario
M4T 2L7
(416) 869-1500

EXPLORATION AND DEVELOPMENT EXPENSE DEDUCTIONS

Eligibility: Enterprises engaged in mineral, oil and gas exploration and development may qualify for special expense deductions under the federal Income Tax Act (Sections 66.1, 66.2 and 66.4).

Description: Exploration and development expense deductions are designed to promote increased activity in the mineral, oil and gas sectors. The deductions reduce the impact of exploration and development expenses on firms and individuals. The tax deductions are called Canadian Development Expenses (CDE), Canadian Exploration Expenses (CEE) and Canadian Oil and Gas Property Expense (COGPE). CDE qualify for a write-off rate of 30 per cent in any given year. COGPE may be written off at the rate of 10 per cent per annum. Up to 100 per cent of CEE may be written off against any source of income by individuals or corporations whose principal business activity is not exploring for or producing petroleum, natural gas or minerals. New-mine development costs may be deducted under CEE. Exploration and develop-

ment activities conducted through drilling funds are eligible for CEE, CDE, and COGPE deductions.

Contact: Tax Interpretations
Revenue Canada
P.O. Box 100
Station Q
Toronto, Ontario
M4T 2L7
(416) 869-1500

FEDERAL EXCISE GASOLINE TAX REFUND

Eligibility: Refunds for the special excise tax on gasoline are available to eligible claimants. Please check the description below for a detailed list of qualifying groups.

Description: Effective January 1, 1979, the federal Excise Gasoline Tax is charged at the rate of 1.5 cents per litre. The tax is applied at the manufacturing level on all gasoline for use in internal-combustion engines, including aviation gasoline. The tax is not levied on diesel fuel, heating fuel and other forms of aviation fuel. To qualify for a refund, the gasoline must be purchased for use only by an eligible applicant and not be used for resale purposes. No refund is permitted on gasoline for personal use, except for physically handicapped persons as described below.

Eligible Applicants:

- a person using gasoline for commercial or business activities
- a farmer using gasoline for farming purposes
- a fisherman, hunter or trapper using gasoline for commercial fishing, hunting or trapping
- agricultural organizations, Boards of Trade or Chambers of Commerce
- registered Canadian charitable organizations (as defined by paragraph 110(8)(c) of the Income Tax Act)
- unions and similar organizations representing labour, industrial, trade or professional groups
- corporations constituted exclusively for the purpose of carrying on or promoting scientific research in Canada
- registered Canadian amateur athletic associations (as defined by paragraph 110(8)(b) of the Income Tax Act)
- municipal, provincial or federal corporations, boards, commissions or authorities
- a municipality
- ministers or clergymen in charge of or administering a diocese, parish or congregation using gasoline for transportation purposes related to their duties

- persons certified by a qualified medical practitioner as suffering from permanent impairment of locomotion to such an extent that their use of public transportation would be hazardous
- employers/organizations who reimburse employees for travel expenses
- persons using aviation gasoline who are engaged in the provision of:
  - i) air transportation of passengers, freight or mail
  - ii) the exploration and development of natural resources
  - iii) aerial spraying, seeding and pest control
  - iv) forestry
  - v) fish cultivation
  - vi) map-making operations
  - vii) aerial-construction operations using rotating-wing aircraft
- persons engaged in the business of testing aircraft engines.

A publication, Federal Excise Gasoline Tax Refund Information and Claim Form, is available at all Canada Post Offices, excise offices, and taxation offices. It contains general information, a form-completion guide, a refund form, a pre-addressed return envelope and a directory of excise offices.

Contact: Excise Tax Collections
Revenue Canada
P.O. Box 460, Station Q
Toronto, Ontario
M4T 2L7
(416) 966-6095

INVESTMENT TAX CREDIT

Eligibility: Corporations and individuals may qualify for an investment tax credit for depreciable property used in manufacturing, processing, logging or exploring or drilling for oil, gas and minerals. Firms conducting research and development are eligible for an additional investment tax credit.

Description: This tax incentive permits a 7-per-cent deduction under the federal Income Tax Act for depreciable property to be used in manufacturing and processing, logging or exploring or drilling for oil and gas. Depreciable property used for prospecting, mining development, mineral drilling and production of industrial minerals, is also eligible for the investment tax credit. Qualified property receiving a 7-per-cent tax credit has been expanded to include

specified long-haul transportation equipment (e.g. railway assets, trucks, ships and aircraft).

Businesses conducting energy research and development are eligible for a 10-per-cent tax credit. A credit of 25 per cent applies to research conducted by a Canadian-controlled, private corporation that qualifies for the small-business deduction.

These tax credits apply to both capital expenditures (e.g. machinery and equipment) and to current expenditures such as salaries for researchers.

The credits apply in the year in which the relevant expenditure was made. However, the claim in the taxation year is limited to $15,000 of federal tax otherwise payable, plus one half of the federal tax in excess of $15,000. Unused credits may be used to reduce tax for a period of up to five years.

Several changes were made to the Investment Tax Credit under the April 1983 Federal Budget.

For investments after April 19, 1983, taxpayers will be able to use their investment tax credit to reduce, without limitation, their federal tax payable. The previous limitations will continue to apply to investment tax credits earned up to and including April 19, 1983. The pre-budget credits may thus be used to reduce tax payable to the fullest extent possible under the current rules. Any remaining federal tax may be reduced further by the credits available under the new rules.

In addition, investment tax credits earned after April 19, 1983 which exceed federal tax otherwise payable, will be carried back to reduce federal tax in previous years. Previously, no carryback of unclaimed credits was allowed. This measure will be phased in over two years. Credits earned in the 1983 tax year will be carried back two years to 1981, while for 1984 and later years a full three-year carryback will apply. As well, the previous five-year carryforward will be extended to seven years for credits earned after April 19, 1983.

The Special Recovery Refundable Investment Tax Credit was introduced in the April 1983 Federal Budget.

A portion of the Investment Tax Credit earned on investments made after April 19, 1983 and before May 1, 1986 will be refunded directly in cash to taxpayers who could not otherwise fully use their credit to reduce their federal tax. For small businesses, corporations, farmers and other unincorporated businesses, the refund will be 40 per cent of the unused investment tax credit earned in a year. For other businesses the refundable portion will be 20 per cent of unused investment credits. The thrust of the measure is to accelerate companies' obtaining benefits from the Investment Tax Credit which would otherwise only be

available later when the credit was carried forward to reduce a company's tax in later years.

A third incentive, the Special Recovery Share-Purchase Tax Credit was also introduced.

Under the measure, corporations will be allowed to issue shares which will entitle the first purchaser to a tax credit of up to 25 per cent of the issue price paid. Share purchase tax credits claimed by share purchasers will reduce the amount of investment tax credit available to the corporation to reduce its tax. Only investment tax credits earned by the corporation after April 19, 1983 will be eligible to be transferred to purchasers of new equity. Depending on the amount of equity the investing corporation needs to raise to finance its investments, and on the investment tax credits it expects to earn, a corporation may find it desirable to issue equity with a share-purchase credit of less than 25 cents per dollar of equity raised. This will be permitted. The measure will be sufficiently flexible to allow corporations to issue qualifying equity during the next three years in advance of undertaking investments. This feature of the measure will be of particular importance to corporations who wish to issue equity in the coming months to finance larger projects that involve investment expenditures over a number of years.

Contact: Tax Interpretations
Revenue Canada
P.O. Box 100
Station Q
Toronto, Ontario
M4T 2L7
(416) 869-1500

MACHINERY PROGRAM (MACH)

Eligibility: Firms importing machinery and related equipment may qualify for remission of duty under this program.

Description: The MACH program provides that duty payable on goods classified under specified tariff items may be remitted if such goods are not available from production in Canada. The objective of the program is to increase efficiency in Canadian industry by enabling firms to purchase advanced equipment not available from Canadian sources, at the lowest possible cost. In addition, Canadian manufacturers are offered tariff protection on machinery and equipment that they produce as soon as they are in a position to supply the market. This is particularly important to Canadian producers of custom-engineered machinery.

The program is directed at a wide range of machines including: general-purpose machinery; metalworking and woodworking machinery; construction and materials handling equipment. Various types of special machinery used in areas such as pulp and paper, plastics and the

service sector are also eligible under MACH. Logging machinery and machines for sawing lumber are also covered.

Remission of duty may be granted by the Department of Industry, Trade and Commerce whenever the following criteria have been met:

- remission is in the public interest
- the machinery is not available from production in Canada.

Remission of duty will not be recommended on the first $500 of value for duty on eligible machinery covered by any one application.

Contact: The Secretary
Machinery and Equipment Advisory Board
Department of Industry, Trade and Commerce
235 Queen Street
Ottawa, Ontario
K1A 0H5
(613) 992-1004

PROSPECTORS' AND GRUBSTAKERS' TAX INCENTIVES

Eligibility: Prospectors and grubstakers who have incurred exploration and development expenses and are engaged in transferring a mining property to a corporation are eligible for a tax exemption (see Section 35 of the Income Tax Act).

Description: According to specific guidelines, prospectors and grubstakers may transfer a mining property to a corporation in exchange for shares, free of tax expense. The received shares are declared to have a nil cost and any gain on the sale of these shares is taxed as a capital gain, rather than as ordinary income when the shares are sold. In addition, if a prospector or grubstaker has incurred prospecting, exploration or development expenses, these amounts are classified as Canadian Exploration Expenses (CEE) or Canadian Development Expenses (CDE) and may be written off against income from all sources.

Contact: Tax Interpretations
Revenue Canada
P.O. Box 100
Station Q
Toronto, Ontario
M4T 2L7
(416) 869-1500

RESEARCH AND DEVELOPMENT TAX INCENTIVE

Eligibility: Energy-related enterprises undertaking current or capital expenditures for research and development in Canada may qualify for the Research and Development Tax Incentive.

Description: Under the federal Income Tax Act, current or capital expenditures for research and development are eligible for a 100-per-cent write-off in the year that they are made. In addition, 50 per cent of the increase in specific research and development expenditures over the average level of expenditure for the previous three years can be deducted.

Research and development expenditures also qualify for the Investment Tax Credit. Higher credits are available for certain small-business corporations and for research and development performed in specified areas.

In the April 1983 Federal Budget, a proposal for consultation was put forward to change the existing research and development tax incentives. The proposal contains two elements:

- The current provision allowing an additional tax deduction of 50 per cent of increases in a taxpayer's research and development expenditures would be replaced by an increase in the tax credit for all research and development expenditures of 10 percentage points. Thus, the basic rate of credit would be 20 per cent of research and development expenditures and 30 per cent in Atlantic Canada and the Gaspé. For small business, the credit rate would be 35 per cent
- As an aid to research and development financing and to increase accessibility of the incentives, corporations will be allowed to enter into an agreement with outside investors under which it would renounce the benefits of research and development tax deductions and credits it would otherwise be entitled to. The investor then would be eligible for a special 50-per-cent tax credit in respect of the funds advanced to the research and development performer. These funds could be advanced by investors in the form of purchase equity, debt or a royalty interest in the research and development performer's revenues, at the option of the parties to the agreement.

Contact: Tax Interpretations
Revenue Canada
P.O. Box 100, Station Q
Toronto, Ontario
M4T 2L7
(416) 869-1500

SALES AND EXCISE TAX EXEMPTIONS

Eligibility: Manufacturers or producers of taxable goods are required to operate under a manufacturer's sales tax license and to account for federal sales tax at the general rate of 9 per cent and excise tax (if applicable) on all sales of taxable goods. Small manufacturers or producers with less than

$50,000 of annual sales of goods subject to federal sales and excise taxes are exempt from licensing and the payment of these taxes. These firms are also exempt from sales tax on their production equipment.

Description: The Excise Tax Act imposes a sales tax on the sale of all goods manufactured or produced in Canada and on goods imported into Canada. Certain goods are exempt from the tax as described in Schedule III of the Act.

Energy-related exemptions are as follows:

Exploration, Development and Production Equipment

- aircraft, parts and equipment, when purchased or imported and used directly in:
  - the exploration and development of natural resources and forestry
  - map-making operations
- pipe, pipe fittings and valves, electric wire, cable and conduit for use by licensed manufacturers as production equipment.

Anti-Pollutant Equipment

- machinery and apparatus sold to or imported by manufacturers or producers for use by them directly in the detection, measurement, prevention, treatment, reduction or removal of pollutants to water, soil or air attributable to the manufacture or production of goods.

Mine Trucks

- self-propelled trucks mounted on rubber-tired wheels for use exclusively at mines and quarries.

Logging Equipment

- internal-combustion tractors, other than highway truck tractors, for use exclusively in logging operations. Such operations may include equipment to remove the log from the stump to skidway, log dump or other carrier.

Oil, Gas and Mineral Development Goods

- pipes or tubes commonly referred to as "oil-country goods." This includes casting, tubing and fittings, couplings, thread protectors and nipples and drill pipe used in connection with natural gas or oil wells
- machinery and apparatus, including wire rope, drilling kits and seismic slot-hole casting for use in exploration for or discovery or development of petroleum, natural gas or minerals
- this exemption includes the following equipment when used in exploration for or discovery or development of petroleum, natural gas or minerals: blowout preventors, casting guides, cement equipment, filters and permafrost-protector refrigeration units

Drilling Mud and Additives

Geophysical Equipment

- geophysical-surveying precision instruments
- equipment for use in prospecting for oil or for exploration and development of petroleum, natural gas, water wells, minerals or for geophysical studies for engineering projects. This includes: magnetometers; gravity meters and other instruments designed to measure gravitational force; field potentiometers; meggers; non-polarizing electrodes and electrical equipment for making measurements in drill holes; instruments and equipment for seismic prospecting; Geiger-Müller counters and other instruments for radioactive methods of geophysical prospecting; electrical and electronic amplifying devices and electrical thermostats designed to be used with any of the foregoing; repair and maintenance equipment used to repair, maintain and service the equipment listed.

Energy-Conservation Materials

- heat pumps for use principally to provide heat in a heating system of a building
- heat-recovery units and devices for extracting heat from exhaust air or waste water for recovery of energy
- solar cells designed to produce electricity directly from the sun for charging batteries
- solar water heaters, solar furnaces and solar panels and tubes specially designed for collecting and converting solar energy into heat for use in solar-heating systems
- thermal-insulation materials designed exclusively for insulation of buildings and having a thermal resistance (RSI value) as installed greater than 16.64 per metre of material
- board and sheet materials of a thickness that provides a total thermal resistance of less than 0.528 RSI are not eligible for exemption
- thermal insulation designed for pipes and ducts used in buildings and mechanical systems and wrapping materials designed exclusively for use with such insulation
- wind generators, windmills and similar fixed location devices for converting wind power to mechanical or electrical energy, pumps and generators specially designed for use with such devices
- thermal insulation materials designed for pipes, ducts, boilers, tanks and wrapping materials designed exclusively for use with such insulation.
- wood-burning stoves, wood-burning-stove kits, wood-burning furnaces and wood-burning space heaters other than: fireplaces; stoves, furnaces or space heaters that burn any amount of oil or gas

- wind deflectors designed to reduce fuel consumption and for installation on motor vehicles and trailers
- waterwheels for converting water power to mechanical or electrical energy and pumps and generators specifically designed for use with waterwheels
- loading-dock door seals and shelters designed to conserve heated or refrigerated air during loading and unloading
- power-factor correction capacitors

Contact: Excise Tax Collections
Revenue Canada
P.O. Box 100, Station Q
Toronto, Ontario
M4T 2L7
(416) 966-6083

SMALL BUSINESS DEDUCTIONS

Eligibility: Private small businesses, that are Canadian controlled, may qualify for a reduced federal income tax rate.

Description: The objective of this tax incentive is to generate additional funds for small-business expansion. The deduction reduces the federal tax rate from 46 per cent to 25 per cent on eligible amounts of active business income. The amount of active business income eligible for tax reduction in a year is $200,000, provided that cumulative retained business income is less than $1,000,000.

This incentive may be particularly attractive to small businesses engaged in manufacturing energy-related equipment and materials. Further details on the deduction are contained in Interpretation Bulletin - IT73R3. (See Temporary Income Tax Exemption For Small Businesses.)

Contact: Tax Interpretations
Revenue Canada
P.O. Box 100
Station Q
Toronto, Ontario
M4T 2L7
(416) 869-1500

ONTARIO
TAX INCENTIVES

GASOLINE TAX EXEMPTIONS

Alternate Energy Incentives

Eligibility: Businesses and individuals are eligible for an exemption from Ontario retail sales tax when purchasing alternate fuel supplies.

Description: Exemption from the Gasoline Tax Act is available for alcohol when used alone or blended with another fuel for the purpose of generating power by means of internal combustion. The current *ad valorem* tax rate is 20 per cent of the retail price of gasoline. All natural and manufactured gases, including propane, are exempt from this tax for all uses.

Fuel oil for heating, coal, coke, natural gas, electricity, manufactured gas, wood shavings, wood sawdust and wood used as fuel are exempt from the Retail Sales Tax and the Motor Vehicle Fuel Tax.

Contact: Motor Fuels and Tobacco Tax Branch
Ministry of Revenue
P.O. Box 622
33 King Street West
Oshawa, Ontario
L1H 8H6
Zenith 8-2000 (Area code 807 callers)
1-800-268-7121 (callers from all other areas)
(416) 433-6300 (local callers)

RETAIL SALES TAX EXEMPTIONS FOR ENERGY CONSERVATION MATERIALS AND EQUIPMENT

Eligibility: Purchasers of certain energy conservation materials and equipment qualify for special Retail Sales Tax exemptions.

Description: Exemption from Retail Sales Tax is provided to the purchasers of vehicles that are powered by alternative fuels. Exemption also applies to the energy required to operate such vehicles, which is either:

- exclusively electrical energy or energy derived from internal combustion of ethanol, methanol, natural gas; or
- a combination of such energy with any fuel taxed under the Gasoline Tax Act, the Motor Vehicle Fuel Tax Act, or the Fuel Tax Act.

This exemption applies whether the vehicle is new or used, and includes vehicles dual powered by fossil and alternate fuels.

Kits purchased for the purpose of converting a gasoline-powered vehicle into one matching the above description are exempt from Retail Sales Tax.

The exemption on conversion kits has been expanded to include kits used to convert a vehicle powered by a gasoline or diesel engine into a dual powered vehicle using both fossil and alternate fuels. The vehicle has to meet all of the requirements for exemption as specified under the Retail Sales Tax Act.

In the May 10, 1983 Budget, the Treasurer of Ontario announced that a full rebate of tax paid will be available on vehicles required to be licensed under the Highway Traffic Act that are converted to a non-conventional fuel within 30 days of their purchase. The rebate will be available to purchasers taking delivery of eligible vehicles on or after May 11, 1983.

Contact: Your local Retail Sales Tax Field Office. See Appendix C

RETAIL SALES TAX EXEMPTION FOR MINERAL EXPLORATION AND DEVELOPMENT EQUIPMENT

Eligibility: Enterprises or individuals carrying out mineral, oil or natural gas exploration and development may qualify for an exemption under the Retail Sales Tax Act.

Description: The Retail Sales Tax Act provides an exemption to individuals or firms involved in mineral, oil or natural gas exploration and development. Eligible equipment used for oil and natural gas well purposes includes pipes, tubes, casings, fittings, couplings, thread protectors, nipples and drilling pipes.

Qualifying equipment used in oil, natural gas and mineral exploration and development includes wire rope, drilling bits, drilling mud and seismic slot-hole casing. Explosives including blasting agents, blasting supplies and accessories such as blasting caps, boosters, plastic cap holders, electric starters, squibs, shunt connectors, safety-use assemblies, igniter-cord connectors, hot-wire lighters, primacord connectors and closing tubes are also exempt from sales tax. To qualify for the exemption, these items must be purchased to be expanded or used up in the process of manufacturing tangible personal property for sale or use.

Contact: Your local Retail Sales Tax Field Office. See Appendix C

RETAIL SALES TAX EXEMPTIONS FOR RESEARCH AND DEVELOPMENT EQUIPMENT AND MACHINERY

Eligibility: Manufacturers purchasing research and development equipment may qualify for an exemption under the Retail Sales Tax Act.

Description: The exemption extends to machinery or equipment used by a manufacturer exclusively and directly in research and development of:

- goods for manufacture or production either for own use or for the use of others
- manufacturing or production processes either for own use or for the use of others.

The exemption is subject to the exclusions set out in Sections 16(1) and 16(2) of the Retail Sales Tax Regulation 903.

Examples of items that may qualify for this exemption are computers, test equipment, control equipment or devices and plans and drawings, provided they are used only in research and development. If such items are subsequently put to a taxable use, tax is due on the fair value of the item at the time of change of use.

Contact: Your local Retail Sales Tax Field Office. See Appendix C

TEMPORARY INCOME TAX EXEMPTION FOR SMALL BUSINESSES

Eligibility: An income-tax holiday is in effect for eligible small-business corporations for two taxation years ending between May 13, 1982 and May 14, 1984.

Description: Canadian-controlled private corporations eligible for the federal government's small-business deduction (see below) are exempt from Ontario Income Tax on the first $200,000 of income for any two taxation years during this period. Such corporations must, however, continue to pay Capital Tax and file Corporations Tax Returns in the normal manner.

The federal small-business deductions are applicable to active business income arising in Canada. Active business income up to $200,000* in the current taxation year is taxed at a reduced federal rate. Income in excess of $200,000* is taxed at the normal federal rate. When income reported for the small business deduction exceeds $1,000,000* for all previous taxation years combined, the eligibility for the reduced rate ends.

Similarly, the income-tax holiday is in effect for active business income up to $200,000 in each of two taxation

years ending between May 13, 1982 and May 14, 1984. Income in excess of $200,000 is taxed at the normal rate. After the two-year tax holiday, business income still qualifying for the federal Small-Business Deductions will be taxed in Ontario at the rate of 10 per cent. Eligibility for these reduced rates of tax ends when qualifying income exceeds $1,000,000 for all previous years combined.

The amount of income on which the tax exemption is claimed must be the same amount used in claiming the federal Small-Business Deductions, even though the taxable incomes reported for Ontario and federal purposes may differ.

Certain types of small businesses are not eligible for the Ontario tax-holiday provisions. These include professional, personal service and management corporations. These corporations pay federal income tax at a reduced rate, but continue to pay Ontario income tax at 10 per cent.

*These amounts are changes proposed in the federal budget of November 12, 1981. At that time, they were increased from $150,000 to $200,000 and from $750,000 to $1,000,000, respectively.

In the May 10, 1983 Budget, the Treasurer of Ontario stated that:

- the two-year suspension of Ontario Corporations Tax on income eligible for the small-business deduction under subsection (1) of Section 125 of the Income Tax Act (Canada) will be extended for one year
- this extension will apply to the taxation year of corporations ending after May 13, 1984 and before May 14, 1985
- the tax that would otherwise have been payable during the exempt period should be taken into account in calculating the tax installments payable for the taxation years following the three-year exemption.

Contact:

Corporations Tax Branch
Ministry of Revenue
P.O. Box 622
33 King Street West
Oshawa, Ontario
L1H 8H6
Zenith 8-2000 (Area Code 807 callers)
1-800-268-7121 (callers from all other areas)
(416) 433-6300 (local callers)

FINANCIAL INCENTIVES

FEDERAL FINANCIAL INCENTIVES

PROGRAM OF ACCELERATED DEMONSTRATION OF SOLAR DOMESTIC WATER HEATING

Eligibility: This program is directed at solar-associated companies that demonstrate the capacity to effectively manage a residential solar-heating project. This program involves the installation of up to 1,000 solar domestic water-heating systems.

Description: The main objective is to assess the overall feasibility of residential water-heating using solar energy. Sub-objectives are: to demonstrate large-scale deployment of solar water-heating systems, to establish a preliminary commercial infrastructure for the installation and maintenance of solar-heating equipment and to contribute to the development of a private market for solar equipment. The program is also designed to improve the cost effectiveness of solar hot-water-heating systems and to provide experience and information essential to the ongoing development of policy in the active solar-heating area.

Eight hundred and twenty-one systems in nine separate projects across Canada have been installed and a monitoring phase is under way. The monitoring phase will extend until March, 1985. Each system will be maintained and serviced during this phase of the program.

Six solar manufacturers have supplied the systems used in the program. Installations were made in both new and existing homes. Homeowners contributed $500 to their installation and retain ownership of the system. The federal funding component for this program is $5 million for the period of 1982-1985.

Contact: Coal and Alternative Energy Branch
Energy, Mines and Resources Canada
580 Booth Street
Ottawa, Ontario
K1A 0E4
(613) 995-9447

ATOMIC ENERGY OF CANADA LIMITED (AECL)

Eligibility: Enterprises involved in nuclear engineering, research and development may qualify to work in liaison with Atomic Energy of Canada Limited (AECL).

Description: One of AECL's major goals is to promote the transfer of nuclear technology from its laboratories to industry. AECL has developed a close liaison with the private sector to enhance the development of nuclear-energy projects such as future fuel cycles, fabrication processes and plant designs. AECL also sponsors symposia to discuss changing requirements for nuclear products. Specifications for materials and components used in nuclear applications are also presented.

Contact: Atomic Energy of Canada Limited
275 Slater Street
Ottawa, Ontario
K1A 0S4
(613) 237-3270

OR

Atomic Energy of Canada Limited
Engineering Company
Sheridan Park Research Community
Mississauga, Ontario
L5K 1B2
(416) 823-9040

CANADA CENTRE FOR MINERAL AND ENERGY TECHNOLOGY (CANMET)

Eligibility: Enterprises involved in mineral, metal and fossil-fuel technology research and development may qualify for funding and technical assistance from the Canada Centre for Mineral and Energy Technology (CANMET).

Description: CANMET conducts, sponsors and contracts applied research and development in the area of mineral, metal and fossil-fuel technology. The research program was developed to complement research conducted by the private sector. The Centre performs research for private enterprise on a full or partial cost-recovery basis. In addition, CANMET conducts ongoing studies in areas such as:

- coal, peat and uranium resource assessment
- mining and processing of coal and uranium
- fuel combustion (including air-pollution control)
- fuel-conservation technology
- coal conversion and utilization
- improved recovery from oil sands and heavy oils
- nuclear and mineral waste disposal
- metals and other materials for energy applications.

Contact: Energy Information Officer
CANMET
580 Booth Street
Ottawa, Ontario
K1A 0E4
(613) 995-4029 or 996-1330

CANADA MORTGAGE AND HOUSING CORPORATION EXTERNAL RESEARCH PROGRAM

Eligibility: Individuals, university researchers, institutions, private consulting firms, engineers, architects and the housing industry are eligible for funding assistance under the External Research Program.

Description: The purpose is to provide grants in support of advanced research in the social, economic, legislative, environmental, physical or administrative aspects of housing. Generally, research topics eligible for grants must relate to policies and programs, housing conditions, factors affecting the cost of construction, land utilization, community planning and the impact of technology on the residential environment.

Research proposals primarily concerned with design projects and the physical testing of concepts, materials, or products are not eligible for funding under this program. They are normally funded under other programs administered by CMHC, such as the Housing Technology Incentives Program.

Two types of grants are available under this program:

- Grants of up to $3,500 to assist researchers intending to carry out short-term studies that examine concepts, test analytical methods or interpret abstract information are provided by CMHC. These grants are intended to be used to cover the direct costs associated with the project. These grants may not be used as a source of income for the applicant or principal researcher, or to cover overhead costs of any institution or firm. An individual may qualify for income assistance if he or she is not receiving funding from an institution, university or public agency. Applications may be submitted at any time during the year and are assessed by a selection committee composed of senior members of CMHC at one of the quarterly meetings, held in January, April, July and October
- Grants of up to $20,000 are available to assist researchers involved in extensive inquiry, concept development, survey research and analysis, policy formulation and evaluation. These grants can be used to cover project costs, salaries for the applicant and principal researchers and overhead expenses of the firm or institution. Applications may be submitted twice a year and not later than set deadlines in March and September. The selection committee is composed of representatives from universities, government, industry and the professions.

Contact: The Administrator
External Research Program
Research Administration and Co-ordination Division
Canada Mortgage and Housing Corporation
Ottawa, Ontario
K1A 0P7
(613) 748-2250

CANADA MORTGAGE AND HOUSING CORPORATION UNIVERSITY SCHOLARSHIPS PROGRAM

Eligibility: Individuals in Masters' and Doctoral degree programs intending to study the social, physical, environmental, economic, legal or administrative aspects of housing may compete for one-year scholarships for studies at Canadian or foreign universities.

Description: The purpose of this scholarship program is to encourage individuals in postgraduate programs to study various aspects of housing. To qualify for a scholarship, candidates must be Canadian citizens or have become landed immigrants in Canada no later than September 15, 1980. CMHC scholars may not hold awards from any CMHC or other federal government source but may, with permission of CMHC, accept additional fellowship assistance from sources other than the federal government.

The awards are made through a national competition of candidates with demonstrated ability and high academic promise.

Over the 12-month period, the holder of a CMHC scholarship will receive a personal allowance of $8,904, plus cost of travel from residence to place of study, university tuition fees and $1,424 for each dependent. The student may apply for renewal of the scholarship as many as three times.

Application must be submitted on the official 1983-84 form through the candidate's university.

Officials of the university must recommend the candidate and transmit the completed application to CMHC. Applications will not be accepted by CMHC directly from candidates.

Contact: Application forms may be obtained from:

- Office of Graduate Studies or individual departments at universities
- regional offices of CMHC

or by writing to:

Administrative Officer, Scholarships
Canada Mortgage and Housing Corporation
Ottawa, Ontario
K1A 0P7

CANADA OIL SUBSTITUTION PROGRAM (COSP)

Eligibility: COSP will pay half the eligible costs of materials and labour for conversions of oil-fired heating systems up to a maximum grant of $800. This applies to:

Single-family residences, such as: single detached houses; semi-detached or row houses each with its own heating system and to individually heated buildings, such as: farm buildings, warehouses, factories, churches, schools, hospitals, homes for senior citizens, public libraries and similar specified public or community-owned buildings.

For residential buildings containing two or more self-contained family dwelling units, COSP will pay half of the eligible material and labour costs up to a maximum grant of:

Units	Grant
2-3	$1,000
4-6	$1,500
7-10	$2,500
11-20	$3,500
21-50	$4,000
more than 50	$5,500

Description: The Canadian Oil Substitution Program (COSP) provides grants to householders and businesses to help meet the costs of converting from oil as a heating fuel to less costly and more plentiful domestic energy sources. COSP is a major element of the National Energy Program's goal to reduce Canada's dependence on oil.

Other important COSP rules:

- COSP applies to conversions of space-heating, water-heating and industrial-process heating systems
- COSP applies only to work done on or after October 28, 1980
- COSP applies only to buildings built before October 28, 1980
- only permanently installed equipment is eligible
- the grant is tied to the property rather than to the applicant
- a record of all grants is kept to prevent duplication
- application may be made by owners or by tenants with the authorization of landlords
- properties such as cottages are not eligible unless they are used as principal residences.

Taxation of Grants

COSP grants must be reported as income for tax purposes. T4 or TP4 forms will be sent to grant recipients. The amount of the grant must be included in the tax return of

the spouse whose income is higher. COSP grants do not affect the Guaranteed Income Supplement paid to pensioners under the Old Age Security Act.

Eligible Conversions

- replacing an oil-fired system with a different energy source (e.g. oil furnace by a natural-gas or electric or wood furnace)
- supplementing an oil-fired system to reduce oil consumption by at least one half (e.g., adding a wood stove, an electric plenum heater or a heat pump)
- adapting an oil-fired system (e.g., with a propane or natural-gas conversion burner or with a wood-burning add-on)
- supplementing hot-water or space heating with an active solar-heating system that displaces at least one third of the oil now used
- completely displacing the oil used for an outdoor swimming pool with an active solar-heating system

Eligible Costs

- total cost of eligible equipment and materials
- total labour cost of a contract installation of eligible equipment and materials
- expenses for the contracted removal of oil-fired heating equipment, storage tanks and associated materials
- costs for transferring existing residential humidification and/or air-conditioning equipment to the new system
- reasonable costs for municipal or other permits

Ineligible Expenses

- expenses for a change between hot-air and hot-water systems
- expenses for the relocation of a furnace or other equipment unless essential to the conversion
- labour expenses for work done by the applicant or the applicant's spouse
- piping, ducting or installation of heating devices in previously unheated or in new areas
- purchase, installation or servicing of humidifiers, electrostatic air cleaners, or air conditioners (except heat pumps)
- insulation or other conservation equipment or materials, except automatic-setback thermostats installed as part of an eligible conversion
- unusual and cosmetic service-entrance connections
- fireplaces, fireplace inserts
- interest charges

Contact: For conversions from oil to natural gas or electricity, contact your local gas or electric utility.

For conversion to wood, solar or propane, and for COSP information, contact:

Conservation and Renewable Energy Office
Energy, Mines and Resources Canada
2242 Lakeshore Boulevard West
Toronto, Ontario
M8V 1A5
Toronto area: 252-5866
Toll free: 1-800-268-2207

For general information on COSP contact:

Policy Advisor
Canada Oil Substitution Program
Ministry of Energy
56 Wellesley Street West
11th Floor
Toronto, Ontario
M7A 2B7
(416) 965-1598

CANADA/SASKATCHEWAN HEAVY OIL AGREEMENT

Eligibility: Companies, research facilities, consultants and individuals engaged in the development of enhanced technology, processes, and methods used in the area of heavy-oil recovery, are eligible for funding assistance under the Canada/Saskatchewan Heavy Oil Agreement.

Description: The principal objectives of the Canada/Saskatchewan Heavy Oil Agreement are:

- to encourage more efficient and complete extraction of heavy oils from oilfields in Saskatchewan by providing financial assistance to, and participating in, the development and application of enhanced recovery technology
- to apply any successful results from such projects as widely as possible in the area of heavy-oil recovery

Secondary objectives of the program are:

- to study and develop methods of further processing the heavy-oil product
- to conduct environmental assessments incidental to the methods of enhanced recovery being developed under the program
- to study and develop methods of rendering the recovered crude oil suitable for pipeline transmission
- to conduct studies on the use of other Saskatchewan-sourced fuels to provide energy for some of the methods of enhanced recovery to be explored and developed
- to collect and retain control of all useful proprietary information, inventions, or knowledge resulting from projects.

Funding by the federal government and the Saskatchewan Government may be 100 per cent of the total estimated project cost. Under agreements entered into with industrial partners, funding will not exceed 50 per cent of the total project cost. Costs will be equally shared by the governments, or as determined by the Management Committee, on a project-by-project basis. Government funding will be in the form of direct payments. Allocations for this program total $16.2 million.

Eligible costs under an agreement shall include only those directly related to approved projects as determined by the Management Committee. These costs may include salaries and eligible benefits for outside professional and related support staff who work specifically on approved projects. Cost-related support services, facilities and materials may also be eligible for funding.

Ownership rights to information, inventions, methods and processes are contingent upon the degree of government funding. Where government funding is 55 per cent or more of the total project cost, ownership of all information, inventions, methods and processes shall reside with the governments of Canada and Saskatchewan. The contractor shall grant licenses to use relevant background information to all parties if directed to do so by the governments of Canada and Saskatchewan. Where government funding is less than 55 per cent, ownership rights shall remain with the contractor. However, the governments of Canada and Saskatchewan shall have a royalty-free right to use the information, methods and processes, for government purposes. The contractor will license all information to other parties, subject to agreement on terms of sharing royalties and/or license fees.

Contact:
Director-General
Petroleum Resources
Energy, Mines and Resources Canada
580 Booth Street
Ottawa, Ontario
K1A 0E4
(613) 995-9351

CANADIAN HOME INSULATION PROGRAM (CHIP)

Eligibility: Homeowners, landlords and tenants may qualify for a CHIP grant covering 60 per cent of the cost of materials or materials and labour combined, to a maximum amount depending upon the type of dwelling. Buildings constructed after January 1, 1971 are not eligible for the grant.

Description: CHIP is a major component of the federal government's overall energy-conservation strategy. The program is designed to assist owners, landlords and tenants with

improving the insulation of their dwellings through a direct financial incentive. In addition, the program provides spillover benefits to suppliers, producers and installers of insulation materials.

Owners and tenants of detached, semi-detached or row units (including mobile homes) may receive a grant for 60 per cent of materials, or materials and labour combined, up to a maximum of $500. Units in apartment buildings with three storeys or less, containing a maximum of six units, are eligible to receive up to $285. Apartment units in three-storey buildings or less containing more than six units may receive up to $215. Bedrooms in non-profit hostels may receive up to $100 per bed-unit. The grant is taxable and all recipients must declare the incentive as income. Only certain insulation materials are eligible for grant funding. A complete list of all CMHC-accepted insulation materials is made available upon application.

Contact: Canadian Home Insulation Program
P.O. Box 1270, Station T
Toronto, Ontario
M6B 4A4
(416) 789-0581, or
1-800-268-1818 (toll free).
Collect calls will be accepted from area code 807.

CANERTECH INCORPORATED

Eligibility: Enterprises engaged primarily in the development and commercialization of renewable energy and conservation technologies may apply for venture-capital financing or equity investment from Canertech Incorporated.

Description: Canertech is a Canadian venture-capital investment company created by the federal government in December 1980. Its mandate is based on the National Energy Program's goals of self sufficiency and oil substitution. Canertech will offer money through direct equity investment or joint ventures with companies seeking to commercialize products, services or systems in the fields of energy conservation and renewable energy. It is not a source of debt financing or research grants. The corporation intends to make a profit over time. Canertech is willing to enter into high-risk arrangements and to face longer payouts.

Canertech will offer technical, management and marketing assistance and will participate in product demonstration and development. It may also directly produce, distribute and market renewable-energy sources and conservation products and services.

The specific investment objective in each project is to successfully commercialize the technology, product or

service. The long-term goal of Canertech is to establish a strong Canadian technological capability to promote conservation and renewable-energy use across Canada. Canertech will also develop exports of systems and products in these areas.

Contact: Canertech Incorporated
1003-213 Notre Dame Avenue
Winnipeg, Manitoba
R3B 1N3
(204) 949-1160

CONTRACTING OUT: SCIENCE AND TECHNOLOGY PROGRAM

Eligibility: The federal government has a policy of contracting out to the private sector as much as possible of its science and technology research and development requirements. Announcements of energy research and development contracts are contained in the Research and Development Bulletin published monthly by Supply and Services Canada.

Description: The federal government is committed to maintaining a balance between in-house and industrial research and development. Since 1972, mission-oriented science and technology requirements in the natural sciences and the social sciences, including urban, regional and transportation studies, have been contracted out to the private sector. The contracting out process is designed to:

- contribute to government scientific objectives
- enhance regional economic expansion
- assist with the development of the scientific component of the Canadian industrial sector.

The Science and Professional Services Directorate of Supply and Services Canada solicits proposals from the private sector in response to departmental requests for research projects. Solicited proposals are evaluated according to criteria geared to the individual project requirements.

Evaluation factors include:

- experience in the area of work
- record of performance on similar projects
- technical or scientific merit of the proposal
- competence of managerial and research/technical staff
- probability of success
- price, type of contracts, special terms and conditions
- financial and technical commitments
- evidence of sound managerial, financial and organizational practices and procedures

- adequacy of facilities and need for outside assistance
- relationship to company's long-range plan
- other factors, such as Canadian content and socio-economic benefits.

The Directorate publishes the monthly Research and Development Bulletin, which lists all projects that are to be contracted out to the private sector. Enterprises and individuals are encouraged to have their names included on the Science Procurement Information Network (SPIN). This index is used to generate lists of potential contractors for specific research and development projects.

Contact: Contracting Out: Science and Technology Program
Science and Professional Services Directorate
Supply and Services Canada
Place du Portage, Phase III, 2C2
11 Laurier Street
Hull, Quebec
K1A 0S5
(819) 977-2686

DESIGN ASSISTANCE TO BUSINESS (DESIGN CANADA)

Eligibility: The Design Assistance to Business (Design Canada) program offers a variety of incentives to small and medium-sized enterprises for product design, development or improvement.

Description: The objective of the program is to improve Canadian design and product development through financial incentives, management training, technical assistance and information seminars.

Design Canada provides the following services:

- Direct and indirect financial assistance

  Contributions are made to enterprises for design projects under the Enterprise Development Program (EDP) and in concert with the Ontario Government, through the Product Development Management Program (PDMP)

- Management Training

  Short management-training courses are provided upon demand to assist executives who administer design policy and activity

- Financial assistance for design education

  Design scholarships are provided to eligible students for study abroad

- Advisory services

  Information and assistance is provided to companies seeking design improvements

- Design promotion, recognition and awards

  Design Canada and the National Design Council offer awards for outstanding design application and design management.

Contact: Design Canada
Department of Industry, Trade and Commerce
235 Queen Street
Ottawa, Ontario
K1A 0H5
(613) 992-0341

DEVELOPMENT AND DEMONSTRATION OF RESOURCE AND ENERGY CONSERVATION TECHNOLOGY (DRECT)

Eligibility: Canadian organizations, industry, the provinces and municipalities are eligible for funding to develop and demonstrate resource and energy-conservation technology.

Description: The purpose of the DRECT program is to accelerate the development and implementation of new energy-conservation technologies that utilize municipal and industrial waste. Proposals that involve waste reduction, recovery of materials or energy from wastes and have a significant energy-savings component are invited from organizations outside the federal government.

The DRECT program will share the costs of the development and demonstration of new methods, procedures, processes and equipment which will permit greater resource conservation or the recovery of wastes for material recycling or energy production. DRECT will normally contribute up to 50 per cent of the total estimated cost of an approved project. Eligible costs include labour, materials, engineering and consulting services and direct capital costs including specialized equipment, prototypes, pilot plants of less than commercial size and reasonable allocations to overheads. The selection criteria for projects that will receive funding is primarily based on energy conservation, environmental protection and economic considerations.

Rights, ownership to equipment, technical data, designs or patents resulting from the project will be retained by the developer. However, the developer must make patents and technology available to all interested parties in Canada. Dissemination of such information will be based on terms considered reasonable by both the developer and the federal government. The applicant will be required to produce a comprehensive final report on the project.

Contact: Manager
DRECT Secretariat
Environment Canada
Place Vincent Massey
351 St. Joseph Boulevard
16th Floor
Hull, Quebec
K1A 1C8
(819) 997-2057

DISTRIBUTION SYSTEM EXPANSION PROGRAM (DSEP)

Eligibility: All natural-gas distribution agents including investor-owned gas utilities, provincial Crown Corporations, co-operatives and municipal utility commissions may propose projects for funding under DSEP.

Description: The objectives of DSEP are to encourage:

- reduction of oil use in residential, commercial and industrial sectors to no more than 10 per cent of total energy use by 1990
- expansion of the natural gas distribution infrastructure.

DSEP is funded from federal government appropriations and from incentive payments made to the federal government by the Alberta government.

The DSEP grant, a cash contribution in aid of construction, is the minimum amount required to render an expansion project financially viable. Proposed projects are reviewed and approved for funding by Energy, Mines and Resources Canada.

Criteria for project approval include:

- the extent to which the project is cost effective in displacing oil consumption
- evidence that the project would not be financially viable in the absence of DSEP funds.

DSEP is a multi-year program that was launched in March 1982 and is scheduled to expire in March 1987.

Contact: DSEP Administration
Natural Gas Branch
Energy, Mines and Resources Canada
580 Booth Street
Ottawa, Ontario
K1A 0E4
(613) 995-2500

ENERGY CONSERVATION RESEARCH AND DEVELOPMENT: BUILDING SECTOR

Eligibility: Private-sector firms and universities engaged in energy research and development in the building sector are eligible.

Description: The program provides technical services, engineering skills and operational systems required for the development of existing building technology and new conservation technologies. This program is directed at a wide range of buildings and focuses on shell construction, mechanical systems, components and appliances. Research in the area of tests, standards and codes is also covered. Residential energy research and development is also sponsored. This is not a direct-assistance program. The research and development work is conducted in-house or contracted out to the private sector to meet federal government priorities. This is an interdepartmental program involving the National Research Council, Public Works Canada, Energy, Mines and Resources Canada, Canada Mortgage and Housing Corporation and the Department of Indian and Northern Affairs.

Contact: Energy Conservation and Oil Substitution Branch
Energy, Mines and Resources Canada
460 O'Connor Street, 11th Floor
Ottawa, Ontario
K4S 5H3
(613) 995-1118

ENERGY FROM THE FOREST PROGRAM (ENFOR)

Eligibility: Any Canadian organization capable of conducting forest-biomass research, development or demonstration projects is eligible for funding assistance.

Description: The ENFOR program is a key component of the federal government's policy to encourage the conservation of fossil fuels through the use of biomass energy sources. The program is designed to enhance the state of the art of biomass technology to the point where forest by-products will make up 10 per cent of Canada's total primary energy production by the year 1990.

The program has two sub-programs: 1) Biomass Production and 2) Biomass Conversion. Biomass Production focuses on research and development concerned with forest inventory, growth, harvesting, transportation and environmental impact. Research in this area concentrates primarily on biomass supply.

Biomass Conversion is concerned with the transformation of biomass supply into fuels and energy-intensive chem-

icals. This component also focuses on the development of conversion technology.

The Biomass Production Committee and the Biomass Conversion Committee develop priorities, assess proposals and make recommendations concerning the support of projects in their respective area. On the basis of these recommendations, the federal government enters into contract agreements with appropriate research and development organizations.

ENFOR normally provides 100 per cent funding for approved research, development and demonstration projects. The program began in the fiscal year 1978/79 as part of an interdepartmental effort to develop renewable energy sources, and will continue until March 31, 1984. Requests for information will be accepted in writing or by telephone.

Contact: ENFOR Secretariat
Canadian Forestry Service
Environment Canada
Place Vincent Massey
351 St. Joseph Boulevard
19th Floor
Hull, Quebec
K1A 1G5
(819) 997-3409

ENERGY RESEARCH AND DEVELOPMENT IN AGRICULTURE AND FOOD PROGRAM (ERDAF)

Eligibility: Individuals, Canadian-owned industries and research establishments conducting energy research and development in agriculture and food may qualify for funding assistance.

Description: The ERDAF program was established in 1981 to expand agricultural research and development in order to assist the Canadian agrifood system with adjusting to higher energy prices. The program complements in-house research by Agriculture Canada and encourages research and development in the private sector. The program is delivered by contracting out projects to industry, qualified individuals, universities and other agencies not part of the federal government. The program is administered by the research branch of Agriculture Canada and consists of both short and long-term projects that pertain to a variety of energy problems. Project proposals are submitted to a selection committee established by Agriculture Canada. The committee reviews the proposals in terms of program priorities and recommends projects for funding within an allocated budget. Proposals are assessed by engineers, economists and other technical experts with a variety of

experience in varjous federal government departments and agencies.

Research project proposals for funding under ERDAF can be submitted to Agriculture Canada in the following ways:

- in response to a general call for proposals
- in response to an advertisement for a specified project
- as unsolicited proposals sent to Supply and Services Canada.

Such requests for proposals are advertised in the monthly Research and Development Bulletin, published by Supply and Services Canada, when funds for new projects are available. Proposals may be submitted by individuals or organizations willing to undertake work that meets program priorities. In addition, they will be accepted from individuals or agencies that recognize a relevant problem or a need that requires research funding.

Terms of reference for the program include:

- **Liquid Fuels**

  The objective is to produce liquid fuels from energy crops, crop residues, culls and food-processing wastes. Efforts will be focused on producing fuels that replace or extend the use of gasoline, diesel fuel, fuel oil or other petrochemical feedstocks.

- **Renewable Energy**

  The objective is to produce energy from biomass for individual or collective farm use. Research will concentrate on the use of crop residues as energy sources. Efforts will also focus on methane production, farm animal and food-processing waste and the practical and economic uses of solar energy in agricultural production and food processing.

- **Conservation:**

  The objective is to develop conservation techniques as they apply to the direct saving of both non-renewable and renewable energy sources and/or decreased energy use per unit of production. Research efforts will focus on improved building design and development. New and existing equipment used in the food-and-beverage sector will be evaluated in terms of energy efficiency and savings.

All equipment, information and patentable concepts and devices paid for under the ERDAF program will be retained by the federal government. Licensing arrangements can be negotiated and first-refusal rights are normally given to the contractor.

Contact: Manager
Energy Research and Development in Agriculture and Food Program
Engineering and Statistical Research Institute
Research Branch
Agriculture Canada
Ottawa, Ontario
K1A 0C6
(613) 995-3151

ENERGY RESEARCH AND DEVELOPMENT PROGRAM

Eligibility: Consultants, enterprises and university researchers engaged in energy research and development are eligible for financial assistance.

Description: A major objective of the National Energy Program (NEP) is to substantially increase federal funding for energy research and development in these areas:

- alternatives to gasoline
- increased efficiency of energy use
- development of new energy sources.

Effective alternate fuels must be developed and commercialized to reduce the dependency of the transportation sector on oil. New funds for energy-efficiency research and development projects are being allocated to programs related to industry, buildings, transportation, agriculture, community systems and energy-demand studies. Increased funding will also be made available to new energy sources ranging from coal to hydrogen. Emphasis is placed on developing technology that will make such energy types environmentally sound.

Funding for energy research and development will be administered by Energy, Mines and Resources Canada through the Office of Energy Research and Development (OERD). Funds will be allotted to existing federal research organizations that will be responsible for contracting projects out to industry. Increased funding under this program will produce diversification in Canadian laboratories and expansion of the in-house and contract research capability of Crown Corporations. Federal-provincial agreements will be established to insure concentration and co-ordination of energy-research and development efforts.

Additional funding for energy research and development is as follows:

1981-82 $35 million
1982-83 $75 million
1983-84 $125 million

Contact: Office of Energy Research and Development
Energy, Mines and Resources Canada
580 Booth Street
Ottawa Ontario
K1A 0E4
(613) 992-9488

ENTERPRISE DEVELOPMENT PROGRAM (EDP)

Eligibility: Small and medium-sized manufacturing or processing firms engaged in product design and development may qualify for funding assistance.

Description: The objective of EDP is to promote growth in the manufacturing and processing sectors. The program is directed at fostering innovation in the design and development of new or improved products or processes. The program also assists firms with adjusting to changing competitive circumstances. Firms must be willing to undertake relatively high-risk projects that exhibit good potential for high rates of return.

Financial support is available to firms through shared-cost arrangements and term-loan insurance. Under a shared-cost arrangement, firms may qualify for a contribution of up to 75 per cent of eligible costs. Insurance can be provided for up to 90 per cent of a term loan from conventional lenders for a one-per-cent annual fee.

Specifically, shared-cost funding is available for consulting services, product development, product design and feasibility studies of productivity-improvement measures. Insurance is available for the restructuring and rationalization of manufacturing and processing firms.

The general eligibility criteria for assistance are:

- the firm and the project must be viable
- for loans and loan insurance, the firm must be unable to receive financing at reasonable terms from conventional lending sources
- for grants, the project must represent a significant burden on the firm in relation to its resources.

At the early stage of the application process, a firm must provide a brief description of the project, estimates of costs, financing arrangements and audited statements for the past three years.

This program is being absorbed under the new federal Industrial and Regional Development Program (IRDP).

Contact: Regional Director
Department of Industry, Trade and Commerce
Regional Office
1 First Canadian Place
48th Floor
P.O. Box 98, Suite 4840
Toronto, Ontario
M5X 1B1
(416) 369-4951
Zenith: 0-3200

FEDERAL BUSINESS DEVELOPMENT BANK (FBDB)

Eligibility: Enterprises in Canada that are unable to arrange financing from conventional lending sources, with reasonable terms and conditions, may qualify for financial support from the Federal Business Development Bank (FBDB). Firms may also receive management counselling from the FBDB.

Description: The FBDB offers several types of financial assistance to enterprises, including term loans, interim (bridge) financing, loan guarantees and equity financing. Term loans are available for a variety of purposes, including purchasing of fixed assets, replenishing working capital, refinancing outstanding debts and financing the purchase of an existing business. Loans with interest rates either floating or fixed for up to five-year terms are available at rates competitive with those of conventional lending institutions.

Interim (bridge) financing is available to provide funds pending receipt of mortgage financing or grants from government agencies. Repayment terms (maximum one year) will coincide with receipt of the funds from other sources.

Loan guarantees to chartered banks or other financial institutions can be considered when the current financing requirements of enterprises cannot be fully met by conventional lenders, are of a short-term nature (maximum one year) and are unsuited to term loans.

The FBDB will enter into equity-financing arrangements with a firm for various purposes such as starting up a new company, developing new products, increasing production capacity or acquiring another firm.

In addition, the FBDB provides management counselling and information services to businesses operating in Canada. The Counselling Assistance to Small Enterprises (CASE) program uses the expertise of retired business persons to assist small enterprises in all areas of business including marketing, bookkeeping, production and personnel. Management-training seminars geared to the needs of small businesses are conducted in cities and towns across Canada for a nominal registration fee. The

FBDB also provides information on federal and provincial government programs available to business.

Contact: FBDB offices are located at various centres throughout Ontario. See Appendix A for the address and phone number of the office in your area.

FOREST INDUSTRY RENEWABLE ENERGY PROGRAM (FIRE)

Eligibility: The FIRE program is available to enterprises that intend to replace non-renewable fuel sources with systems that utilize biomass material.

Description: The first phase of the FIRE program was introduced in July, 1978 to provide an incentive to the forest industries to utilize wood waste as a source of fuel. A total of $103 million was allocated to the program for the period ending March 31, 1984 to provide grants of between 10 per cent and 20 per cent towards the capital cost of equipment and installation.

The program funding level and eligibility criteria have been expanded in response to the high level of acceptance and potential for substitution of fossil fuels. The expanded program encourages the replacement of fossil fuels with wood residues or other biomass. The objective is to save the equivalent of 30 million barrels of oil per year.

Program funding has been increased to $288 million to provide incentives to convert existing operations or to install new facilities that use wood residue, municipal and agricultural wastes, peat or other biomass as replacements for fossil fuels.

Financial incentives are available for fuel-handling and burning equipment and electrical generators used in co-generation installations. These incentives are available to industrial, commercial, institutional or similar organizations that satisfy the eligibility criteria.

Contact: FIRE Program Secretariat
Renewable Energy Division
Energy, Mines and Resources Canada
580 Booth Street
Ottawa, Ontario
K1A 0E4
(613) 995-9447

HOUSING TECHNOLOGY INCENTIVES PROGRAM

Eligibility: Financial assistance is available to Canadian contractors, builders and building product manufacturers involved in the development of innovative housing technologies. Organizations that are government-sponsored or supported by public funds, are not eligible for assistance under the program.

Description: The program encourages the development, demonstration and documentation of innovative ideas that improve the performance of housing and exhibit potential for market acceptance.

Successful applicants will receive up to $10,000 per project and are expected to share a portion of the costs. Projects must have the potential to meet the provisions of the National Building Code of Canada, the Residential Standards, the Minimum Property Standards and the appropriate provincial or municipal regulations. Successful applicants will be required to sign a contract with Canada Mortgage and Housing Corporation that will cover the work to be done as well as conditions of payment. Applicants are responsible for obtaining necessary municipal and provincial permits or licenses, absorbing cost overruns, handling production and marketing and investigating the tax implications of the CMHC contribution.

Project costs eligible for funding include:

- materials, parts and components, and, where appropriate, their transportation to the site
- direct labour and management
- testing to substantiate the benefits or improvements expected to result from the proposal
- consultants' fees
- equipment rental
- development of specifications and drawings for prototype purposes
- preparation of a final-evaluation report of the project.

Ineligible costs include:

- costs incurred before the approval of a contribution by CMHC
- travel costs, living expenses, stationery, postage, telephone or other business and personal expenses
- general overhead and administration costs
- fees for statutory or regulatory testing, patents, licenses, permits and other approvals
- performance bonds and insurance for the protection of the applicant and/or employees
- development of specification and engineering drawings for commercial production or manufacturing processes
- capital expenditures in plant and equipment and other commercial production manufacturing costs
- marketing costs and studies, e.g. packaging, industrial design, promotional material and sales literature

CMHC reserves the right to publish the names of successful applicants and the results of projects financed under

the program. The applicant retains all rights to the innovation.

Contact: Please direct inquiries in writing to:

Manager
Housing Technology Incentives Program
Canada Mortgage and Housing Corporation
Montreal Road
Ottawa, Ontario
K1A 0P7
(613) 748-2340

INDUSTRIAL AND REGIONAL DEVELOPMENT PROGRAM (IRDP)

Eligibility: IRDP is directed at a wide range of commercial and industrial firms, organizations and technological institutes undertaking projects that will impact on regional industrial development. Firms anywhere in Canada can qualify for assistance under this program.

Description: IRDP is designed to promote industrial restructuring and development across Canada. The level of support available to firms and organizations corresponds to the level of regional disparity in each of Canada's 260 census divisions. A Development Index will be used to determine the level of support available to each applicant. The Index is based on the unemployment rate, the level of income and the fiscal capacity of the province in which the census division is located.

A graduated four-tier system of financial assistance is available. The fourth tier, in which maximum support is available, will be restricted to those areas of Canada where the 5 per cent of the population in greatest economic need reside. The third tier will apply to those areas in which 5 to 20 per cent of the population reside. The second tier will apply to the areas with 20 to 35 per cent of the population and the first level will be applicable to the remainder of the country.

IRDP applies to the following corporate and product lifecycle elements:

INDUSTRIAL INFRASTRUCTURE

Assistance for operating or capital costs may be made available to economic, business or technological institutes for studies and specialized common services having significant and direct benefits for regional development.

Availability

Tier I
Tier II
Tier III
Tier IV

Infrastructure directly related to regional industrial development may be supported on a shared cost basis.

Availability
Tier II
Tier III
Tier IV

INNOVATION

- **Studies**

  Assistance may be made available toward the cost of qualified consultants for studies on project feasibility, technology transfer, market research and venture capital search associated with prospective innovation projects.

Availability	Maximum Sharing Ratios
Tier I	50%
Tier II	60%
Tier III	75%
Tier IV	75%

- **Developing New Products or Processes**

  Assistance may be provided for projects to develop new or improved products or processes. These must be scientifically feasible, entail significant technical risk and represent attractive prospects for commercial exploitation. Eligible costs are those current, incremental and project-related ones necessary to bring a product or process to commercial production. This includes the demonstration of prototypes.

Availability	Maximum Sharing Ratios
Tier I	50%
Tier II	60%
Tier III	75%
Tier IV	75%

ESTABLISHMENT

- **Studies**

  Funding may be provided to the cost of qualified consultants for studies of project feasibility, market research or venture capital search associated with a prospective establishment project.

Availability	Maximum Sharing Ratios
Tier I	50%
Tier II	60%
Tier III	75%
Tier IV	75%

- **Plant Establishment**

  Funding may be made available for the establishment of new production facilities for manufacturing or processing and selected service sectors related to industry or major tourism projects.

  Eligible costs are capital costs including buildings, machinery and equipment, capitalized preproduction costs and directly related infrastructure.

Availability	Maximum Cost Sharing Ratios	Minimum Approved Capital Costs
Tier II	35%	$100,000
Tier III	50%	50,000
Tier IV	50%	25,000

MODERNIZATION/EXPANSION

- **Studies**

  Assistance may be provided for consultants to undertake project feasibility studies, market research, venture capital search and productivity improvement (audit and implementation) for projects associated with modernization, productivity improvement or expansion.

Availability	Maximum Sharing Ratios
Tier I	50%
Tier II	60%
Tier III	75%
Tier IV	75%

- **Developing Technological Capability**

  Projects that do not lead directly to identifiable sales may be supported if the development is of strategic importance to the firm and the regional industrial development priorities of the government.

Availability	Maximum Sharing Ratios
Tier I	50%
Tier II	60%
Tier III	75%
Tier IV	75%

- **Development, Design, Demonstration and Engineering**

  Projects to develop new products or processes, but which do not entail significant technological risks, may be supported. However, this assistance, intended mainly for small and medium-sized businesses, will be repayable upon successful completion of the project.

Availability	Maximum Repayable Share
Tier I	50%
Tier II	60%
Tier III	75%
Tier IV	75%

- **Modernization**

  Assistance may be made available for the acquisition of new and advanced machinery and equipment which significantly enhances the productivity of existing activities in manufacturing and processing and selected services related to industry.

Availability	Maximum Sharing Ratios	Minimum Approved Capital Costs
Tier I	25%	$250,000
Tier II	35%	100,000
Tier III	50%	50,000
Tier IV	50%	25,000

- **Expansion**
  Assistance may be made available for the expansion of existing manufacturing or processing production facilities, as well as those in selected service sectors related to industry or major tourism projects. Eligible costs are capital costs including buildings, machinery and equipment, and capitalized preproduction costs.

Availability	Maximum Sharing Ratios	Minimum Approved Capital Costs
Tier I	25%	$250,000
Tier II	35%	100,000
Tier III	50%	50,000
Tier IV	50%	25,000

Note: In Tier I, assistance will be targeted to the most promising areas of industrial potential and comparative advantage.

- **Adaptation of Microelectronics Technology**
  Funding may be provided to manufacturers and processors for the first installation of microelectronic devices in their products and operations. Contributions up to $10,000 may be provided for feasibility studies by consultants. Contributions up to $100,000 may be provided to apply microelectronic devices to products or processes or to design custom microelectronic devices.

Availability	Maximum Sharing Ratios
Tier I	50%
Tier II	60%
Tier III	75%
Tier IV	75%

MARKETING

- **Studies**
  Funding may be made available for consultants to undertake studies in market research and marketing strategies for persons engaged in manufacturing and processing, selected services related to industry and major tourism projects.

Availability	Maximum Sharing Ratios
Tier I	50%
Tier II	60%
Tier III	75%
Tier IV	75%

RENEWAL

- **Studies**
  Assistance may be provided for consultants to undertake studies of project feasibility, market research, and venture capital search associated with prospective renewal projects.

Availability	Maximum Sharing Ratios
Tier I	50%
Tier II	60%
Tier III	75%
Tier IV	75%

- **Restructuring**
  Loan guarantees (up to 90%) may be provided on a last resort basis in all tiers. An annual 1% insurance fee could be levied.

  Projects involving loans of less than $500,000 will normally be referred to the Federal Business Development Bank (FBDB) which can better serve this level of business clientele through its direct lending activities.

  For some companies which do not find loan guarantees sufficiently useful, repayable contributions (up to 25% in all tiers) may be provided. Eligible costs are buildings, machinery and equipment, and capitalized preproduction costs.

The general program criteria are:

- **Incrementality**
  No project may be supported unless it would likely not proceed, insofar as location, scope or timing are concerned, unless support is provided.
- **Commercial and Economic Viability**
  The project and persons undertaking the project must be considered to be economically and commercially viable within reasonable bounds of risk.
- **Significant Economic Benefits to Canada**
  The project and exploitation of the results of the project must represent significant net economic benefit to Canada within reasonable bounds of risk.
- **Eligible Persons**
  Individuals, corporations, partnerships, cooperatives and non-profit organizations, regardless of ownership or taxation status, are eligible provided the project is undertaken in Canada.
- **Amount and Conditions of Program Support**
  Eligible projects will not necessarily be supported at the maximum levels. The minimum amount of financial support required for the project to proceed and for economic benefits to be maximized will be provided.
- **Targeting Program Support**
  Priorities will be set after consultations with the private sector and other interested persons. Project proposals will be given a ranking in accordance with priorities and the economic benefits of the project. Regional development considerations will be of paramount importance.

IRDP replaces a number of programs offered through the Department of Industry, Trade and Commerce (ITC) and the Department of Regional Economic Expansion (DREE).

The Enterprise Development Program (EDP) and the Regional Development Incentives Program (RDIP) are being absorbed under IRDP.

Contact: Manager
Business Information Centre
Department of Industry, Trade and Commerce
1 First Canadian Place
Suite 4840
P.O. Box 98
Toronto, Ontario
M5X 1B1
(416) 369-4941
Zenith: 0-3200

INDUSTRIAL CONVERSION ASSISTANCE PROGRAM (ICAP)

Eligibility: ICAP is available to taxable industrial and commercial establishments and private institutions burning No. 6 fuel oil in boilers and process heaters.

Description: ICAP provides a contribution of 50 per cent of the eligible capital costs of converting existing boilers and process heaters from No. 6 fuel oil to pipeline natural gas. These criteria apply:

- applicants must be located in an area serviced by a gas supplier who has contracted with Energy, Mines and Resources Canada to administer the program
- applicants must be subject to income tax
- applicants must be using No. 6 oil for all or part of the fuel requirement of the boiler or process heater. The appliance should be suitable for installation of equipment that will permit the burning of pipeline natural gas, either alone or in combination with another fuel
- applicants must enter into a gas-supply contract with their local gas supplier for service covering at least three years
- applicants must perform the conversion within the time frame of the program
- the natural gas must not be used for generation of electricity that will be sold
- the appliance to be converted must not be used in petroleum-refining operations
- for petrochemical or fertilizer plants, the oil-burning facilities being converted must have been in operation prior to October 31, 1981.

Recipients of ICAP contributions must enter into an agreement with the federal government to use pipeline natural gas for at least 50 per cent of the fuel requirement of the converted appliance for each of the three years immediately following the conversion. If a yearly minimum quantity of

gas is not consumed, a proportional amount of the ICAP contribution must be returned to the federal government.

Contact: Your local natural gas supplier

OR

ICAP Secretariat
Energy Conservation and Oil Substitution Branch
Energy, Mines and Resources Canada
580 Booth Street
Ottawa, Ontario
K1A 0E4
(613) 995-9447

INDUSTRIAL ENERGY RESEARCH AND DEVELOPMENT PROGRAM (IERD)

Eligibility: All enterprises established in Canada, formal or informal groups of companies or individuals, trade and research associations, and consulting firms conducting industrial energy research and development, are eligible for funding assistance.

Description: The IERD program is directed at industrial processes, products and energy-conservation equipment. Funding is available for up to 50 per cent of the eligible costs associated with an approved research and development project. Costs included are direct labour and materials, special-purpose equipment, subcontractors, consulting fees, regulatory and patent costs in Canada, and a reasonable amount of associated overhead. The rights to the development project belong to the applicant. Applicants may be requested to license the technology at a reasonable fee in Canada. Major funding criteria include energy savings, degree of risk, availability of resources and ability to commercially exploit the product. Funding beyond 50 per cent is available for exceptional cases. Funding for 1983-84 is $8 million. Application processing time is about three months.

Contact: Deputy Secretary
Industrial Energy Research and Development Program
Program Development and Operations Branch
Department of Industry, Trade and Commerce
235 Queen Street
Ottawa, Ontario
K1A 0H5
(613) 995-7174

INDUSTRIAL RESEARCH ASSISTANCE PROGRAM (IRAP)

Eligibility: All federally or provincially incorporated companies engaged in scientific and engineering research and development are eligible for assistance under IRAP.

Description: This program was established by the federal government to promote economic development. IRAP's objective is to increase the calibre and range of industrial research and development and to foster the use of available technology.

The $35-million IRAP program has recently been consolidated with the National Research Council of Canada's (NRCC) Technical Information Service to form a six-part program that provides a wide range of services.

Field Advisory Service (IRAP-C)
Technical representatives, located in NRCC offices and provincial research organizations across Canada, provide information, guidance and direct assistance to local industry to help solve technical problems. They also help industrial clients gain access to other federal assistance programs and agencies.

Technical Information Services (IRAP-F)
This service has provided scientific and technical information, advice and assistance on technical matters to Canadian industry for more than 35 years. The most advanced scientific and technical knowledge is applied to solve problems, improve production and develop new products or processes as well as reduce costs. These confidential services are available free through field advisors or from the Technical Information Service in Ottawa.

Contributions to Firms Employing Undergraduates (IRAP-H)
Scientific and technical assistance to small companies is provided through support of a substantial portion of the salaries of students from universities and technical colleges. The students work on problems related to production, manufacturing, product design, quality control and industrial engineering.

Contributions to Laboratory Investigations (IRAP-L)
Small firms with technical problems or testing requirements for their products or processes are eligible for financial assistance. The assistance is available for contracts to appropriate laboratories, institutes or consulting firms where total costs do not exceed $6,000. The program contribution is limited to 75 per cent of the costs of the authorized contract. Firms may receive assistance for as many as three projects in any one year.

Contributions to Small Projects (IRAP-M)
Small incorporated companies with no more than 200 employees are eligible. Direct salaries of technical personnel working on scientific or technical problems are supported by the program. Projects should not exceed 12 months and the maximum level for assistance of any project is $30,000.

Contributions to Large Projects (IRAP-P)
Financial assistance to industry is provided through support of longer-term applied industrial research projects of high technical merit. The assistance is provided through support of salaries for scientific and technical staff working on approved projects. Support is also available for technical consultants and for sub-contracting arrangements with qualified organizations.

Projects should be technically and commercially feasible. Submissions should be supported by a good business plan indicating prospects for a high rate of return. Only financially sound companies incorporated in Canada are eligible.

Contact: Director
Industrial Research Assistance Program
National Research Council of Canada
Montreal Road
Ottawa, Ontario
K1A 0P6
(613) 993-0496 or 993-0331 (IRAP-P)

OR

Technical Information Service
National Research Council of Canada
Montreal Road
Ottawa, Ontario
K1A 0P6
(613) 993-1753

NEW OIL REFERENCE PRICE SUPPLEMENT (NORP)

Eligibility: Ontario producers of new oil are eligible for special supplements. New oil is as defined in the Petroleum Compensation Program Regulations pursuant to Section 75 of the Energy Administration Act. In general terms, new oil includes:

- oil from a well drilled and completed on or after January 1, 1981 that is the only one in the spacing unit that is producing, or is capable of producing oil
- oil from a well that had ceased production for three consecutive years or more, and resumed production on or after January 1, 1981
- incremental oil from an enhanced recovery scheme (other than water flood).

Description: The NORP program became effective January 1, 1982. It is one of the federal government's incentives under the National Energy Program (NEP) to encourage the discovery and development of new sources of domestic oil by providing a price supplement that brings the price of new oil up to the limit of international prices.

The program is administered by the Ontario Ministry of Natural Resources on behalf of the Oil Pricing and Compensation Programs Branch of Energy, Mines and Resources Canada.

The supplement payments for fiscal 1982-83 are estimated to be $400 million nationally and $1 million for the Province of Ontario.

Contact: Petroleum Resources Section
Ontario Ministry of Natural Resources
1106 Dearness Drive
London, Ontario
N6E 1N9
(519) 681-5350

NEW TECHNOLOGY EMPLOYMENT PROGRAM (NTEP)

Eligibility: Under NTEP, the following are eligible to submit proposals: private-sector firms that normally employ fewer than 300 employees, research institutes, non-profit Crown Corporations, universities and community colleges, sole proprietorships or partnerships, associations and community organizations.

Description: The program is designed to create employment for scientifically or technically trained post-secondary graduates unable to find employment in their particular field. The program is intended to create positions involving research and development or the application of technical innovations to manufacturing, process and product development. In addition, wage subsidies are available for firms employing eligible persons to develop and apply small-scale energy-conservation programs and alternative-energy technologies.

Priorities include: microelectronics, biotechnologies, materials technology, manufacturing science, communications technology, energy-related research and development, geophysical exploration, instrumentation technologies, transportation technology, ocean technology and toxicology.

The federal government will provide up to 75 per cent of the wages paid to an eligible person to a maximum contribution of $290 per week per job. Funding in support of a job may be provided for up to 12 continuous months to a maximum amount of $150,000 for each employer.

Contact: New Technology Employment Program
Canada Employment and Immigration Commission
4900 Yonge Street
Suite 700
North York, Ontario
M2N 6A8
(416) 224-4703

OIL IMPORT COMPENSATION PAYMENTS PROGRAM

Eligibility: Importers of foreign crude oil and petroleum products are eligible for financial assistance under the Oil Import Compensation Payments Program.

Description: The program was introduced on January 1, 1974. It is the instrument for the delivery of the federal government's made-in-Canada blended oil price. The program pays importers of foreign oil the differential amount between the average cost of crude oil imported to Montreal and the cost of equivalent-quality Canadian crude delivered to Montreal.

Contact: Oil Pricing and Compensation Programs Branch
Energy, Mines and Resources Canada
580 Booth Street
Ottawa, Ontario
K1A 0E4
(613) 995-2500

PETROLEUM INCENTIVES PROGRAM (PIP)

Eligibility: The program offers incentive payments to corporations, partnerships, trusts or individuals engaged in the exploration and development of oil and gas. The incentives are payable either in cash or through reductions in the Petroleum Gas Revenue Tax.

Description: The purpose of PIP is to promote energy security and Canadian ownership and control of the oil and gas industry in Canada. The program is structured to favour exploration and development investment by Canadian-controlled businesses and individuals anywhere in Canada. These payments supplement depletion allowances that were reduced under the National Energy Program (NEP). The program offers further incentives for exploration of the Canada Lands in northern and offshore areas.

PIP incentives are determined as a percentage of eligible exploration and development costs or expenses. Payments will be made on the following basis:

- the Canadian Ownership Rate (COR) of the applicant
- the control status of the applicant
- the location of the expenditures (the Canada Lands or Provincial Lands)
- the type of expenditure (exploration, development, eligible assets)
- the year in which the expenditures are incurred.

Incentive payments will be made on the following basis:

		Provincial Lands				Canada Lands			
		Level				Level			
		1	2	3	4	1	2	3	4
		%	%	%	%	%	%	%	%
Exploration									
	1981	nil	nil	25	35	25*	35**	65**	80**
	1982	nil	10	25	35	25	45	65	80
	1983	nil	10	25	35	25	45	65	80
	1984	nil	15	25	35	25	50	65	80
	1985	nil	15	25	35	25	50	65	80
	1986	nil	15	25	35	25	50	65	80
Development									
	1981	nil	nil	15	20	nil	nil	15	20
	1982	nil	10	15	20	nil	10	15	20
	1983	nil	10	15	20	nil	10	15	20
	1984	nil	10	15	20	nil	10	15	20
	1985	nil	10	15	20	nil	10	15	20
	1986	nil	10	15	20	nil	10	15	20
Asset Costs									
	1981	nil	nil	15	20	nil	nil	15	20
	1982	nil	10	15	20	nil	10	15	20
	1983	nil	10	15	20	nil	10	15	20
	1984	nil	10	15	20	nil	10	15	20
	1985	nil	10	15	20	nil	10	15	20
	1986	nil	10	15	20	nil	10	15	20

* The 25-per-cent Crown Share Incentive
** Includes the 25-per-cent Crown Share Incentive

Canadian Ownership Rate (COR) Table

	Range 1*	Range 2	Range 3	Range 4
	%	%	%	%
1981	less than 50	50 or more	60 or more	65 or more
1982		50	61	67
1983		50	62	69
1984		50	63	71
1985		50	64	73
1986 or later		50	66	75

* Range 1 refers to applicants who have COR's of less than 50 per cent or who are not Canadian controlled.

In all cases, Canadian individuals will be entitled to the same incentive payments as enterprises that are at least 75 per cent Canadian owned and Canadian controlled.

The incentives offered under PIP are designed to substantially increase the share of oil and gas revenues received and controlled by Canadians.

In the Memorandum of Agreement between the Government of Canada and the Government of Alberta relating to Energy Pricing and Taxation, dated September 1, 1981, it

was stated that Alberta would undertake to administer and fund the portion of the PIP program that relates to activities occurring within that province. Agreements between the Government of Canada and the Governments of British Columbia and Saskatchewan (September 24, 1981 and October 26, 1981 respectively) stated that the Government of Canada would administer and fund PIP in these two provinces.

Contact: Petroleum Incentives Program
Energy, Mines and Resources Canada
344 Wellington Street
5th Floor
West Memorial Building
Ottawa, Ontario
K1A 0E4
(613) 996-2611

For Alberta: Communications Branch
Alberta Petroleum Incentives Program
Department of Energy and Natural Resources
855 - 8th Avenue S.W.
Calgary, Alberta
T2P 3P1
(403) 261-4298

PROGRAM FOR EXPORT MARKET DEVELOPMENT (PEMD)

Eligibility: Canadian manufacturers, suppliers and the service industry are eligible for export marketing assistance.

Description: PEMD seeks to increase Canada's exports by encouraging Canadian business to undertake additional marketing activities in foreign markets through shared-cost arrangements. Projects involved with maintaining foreign markets or with obtaining new business in established business areas do not qualify for assistance.

The program provides up to 50 per cent of the costs incurred by a company attempting to penetrate new markets. The PEMD program consists of six parts:

Section A: Specific Project Bidding
The cost of bidding on specific projects anywhere outside Canada is shared through Section A. The projects typically involve a formal bidding procedure in competition with foreign firms for consulting services, engineering, construction and the supply of Canadian goods and services.

Section B: Market Identification Trips
This section helps companies undertake market identification trips to potential markets to assess whether exporting to that market would be commercially viable. It also helps companies make industrial co-operation arrangements.

Section C: Participation in Trade Fairs Abroad
Section C helps Canadian exporters participate in trade fairs and industrial exhibitions outside Canada. Companies may participate in the same (or essentially the same) event up to three times. The events supported are generally of limited duration.

Section D: Incoming Foreign Buyers
Canadian companies are helped to bring potential buyers to Canada or to an approved location abroad. Foreign buyers must play a major role in influencing purchasing decisions or industrial co-operation agreements.

Section E: Export Consortia
This section encourages Canadian manufacturers to make co-operative arrangements for the development of joint export sales by forming permanent export consortia. It is particularly interested in encouraging consortia of small and medium-sized firms. Funds are also provided for feasibility studies of proposed export consortia as well as the formation and operation of new consortia in Canada for up to three years.

Section F: Sustained Export Market Development
Section F helps Canadian exporters undertake a sustained marketing effort in a foreign market by establishing facilities on location. Phase I provides support for market studies and the preparation of a marketing plan. Phase II shares the implementation costs for up to three years.

Financial incentives are available to reduce the risk associated with the foregoing export development activities. Incentives are repayable on specified terms if export sales are achieved as a result of PEMD assistance. If sales or contracts are not obtained, repayment is not required.

The program has provided assistance to manufacturers of solar-energy technology as well as to the Canadian nuclear industry.

Contact: Phone inquiries are welcome.

Director, Trade Development
Program for Export Market Development
Department of Industry, Trade and Commerce
1 First Canadian Place
Toronto, Ontario
M5X 1B1
(416) 365-3737

OR

Program for Export Market Development
Program Branch
Department of Industry, Trade and Commerce
235 Queen Street
Ottawa, Ontario
K1A 0H5
(613) 593-6463

PROGRAM FOR INDUSTRY/LABORATORY PROJECTS (PILP)

Eligibility: Canadian companies that demonstrate the capacity to transform government technical expertise and research results into commercially viable products or processes are eligible for financial assistance under PILP.

Description: PILP was introduced in 1975 to encourage the application and use of scientific and engineering knowledge in areas in which significant economic and social benefits to Canada can be foreseen. The program is a co-operative effort between industry and the National Research Council of Canada (NRCC). It offers financial assistance to projects directed at identifying, developing and marketing technologies to which government scientific or engineering staff can make significant contributions.

PILP will share the cost with the client company of a research and development project addressing the factors of higher technical risk in commercializing the technology under development. The sharing ratio is negotiated to fit the circumstances of the project and the company.

PILP is directed at incorporated companies. However, subcontracts may be made to a university or institute. Under funding agreements, licenses will be arranged to permit the participating firm to use the government technology rights associated with a PILP project, as required. However, any new technology developed during the course of the project becomes the property of the participating company. The PILP office will either actively seek companies or respond to requests from firms interested in commercializing federal technology. Preference is given to companies that can manage the commercialization and marketing processes associated with the technology.

The consolidated program budget for fiscal year 1982/83 was over $17 million. Average project costs are approximately $250,000 per year. Several multi-year projects with costs over $1 million have been approved.

Contact: General Manager
Program for Industry/Laboratory Projects
National Research Council of Canada
Building M-58
Montreal Road
Ottawa, Ontario
K1A 0R6
(613) 993-0357

PROJECT RESEARCH APPLICABLE IN INDUSTRY (PRAI)

Eligibility: Any member of the academic staff of a Canadian university who can apply for a Natural Sciences and Engineering Research Council (NSERC) grant is also eligible for a PRAI

grant. PRAI grants may be held concurrently with NSERC operating grants.

Description: The PRAI program, administered by NSERC, is a system of grants directed at enhancing the transfer of research results from the university laboratory to industry for the benefit of the Canadian economy. Research projects must be carried out in collaboration with a company (or companies) located in Canada that can undertake and profit from subsequent development and commercial exploitation of the results. PRAI grants provide support for academics whose research has already led to the identification of a unique technique, process or product which promises to be of commercial value to Canadian industry.

The collaborating company must demonstrate the capacity to:

- provide guidance to the university staff member in defining the project, preparing the proposal and carrying out the project. Direction on the technical and economic requirements for commercial exploitation is essential
- provide information in support of the proposal on the nature and extent of the company's interest in the project
- provide, when it is within the company's capability, facilities, services or other forms of support that would complement the resources of the university
- provide NSERC with assessments of the project as it proceeds and a final evaluation outlining the potential benefits to the company
- use the results of the project directly in company operations for subsequent economic benefit in Canada.

In return for its support and participation, the collaborating company will normally gain the advantage of a first right of access to the results for commercial exploitation. For each project selected for support under the PRAI program, NSERC will draw up a research agreement containing a description of the project and any particular conditions of the award. The award will be made when the agreement has been approved by the university project director, the university office having authority to sign agreements on behalf of the university and an authorized signing officer of the collaborating company. PRAI projects will normally have a maximum duration of two to three years, but, under exceptional circumstances, support for up to five years can be considered. Allocations to the PRAI program total $3.1 million for 1983-84.

Contact: Awards Officer
Project Research Applicable In Industry
Natural Sciences and Engineering Research Council
Montreal Road
Ottawa, Ontario
K1A 0R6
(613) 993-3546

PROPANE GRANT PROGRAM FOR COMMERCIAL AND FARM VEHICLES

Eligibility: Road vehicles owned by corporations and individuals conducting a business in Canada, certain federal Crown Corporations, non-profit organizations certified by Revenue Canada as charitable organizations, municipalities and regional governments and their boards, commissions and authorities, are eligible for propane-conversion incentives. Farm vehicles are also eligible for assistance under this program.

Description: The program is a key component of the National Energy Program (NEP). The primary objective is to reduce dependency on oil in the transportation sector by offering incentives to owners of farm and commercial vehicles to convert their fleets to propane. The National Energy Board (NEB) forecasts indicate that Canadian propane supplies will continue to exceed demand for the rest of the century.

The program is designed to reduce the financial impact of the initial investment required for vehicle conversion. A taxable grant of $400 is available for each eligible vehicle either purchased new with a dedicated propane system or converted to a propane-only system from gasoline. Diesel-powered vehicles converted to a mixed diesel/propane fuel system are also eligible for the grant. There is no limit on fleet size. One vehicle constitutes a fleet under this program.

Contact: Propane Vehicle Grant Program
Energy, Mines and Resources Canada
P.O. Box 4513, Station E
Ottawa, Ontario
K1S 5K6
(613) 995-3433

OR

Regional Information Officer
Energy, Mines and Resources Canada
2242 Lakeshore Boulevard West
Toronto, Ontario
M8V 1A5
(416) 252-5866
Toll Free: 1-800-268-2207

PURCHASE AND USE OF SOLAR HEATING PROGRAM (PUSH)

Eligibility: Designers, installers and manufacturers of solar-heating systems may qualify for federal government purchasing contracts under the PUSH program.

Description: The program is designed to stimulate the development of Canadian solar-energy technology and to establish a regionally distributed manufacturing industry. The program provides advantages to Canadian suppliers of solar space and water-heating equipment who are interested in bidding for contracts to outfit federal government buildings. This approach is intended to increase the pace of technological development of solar systems. Solar-system standards developed under this program have been adopted under the federal-Ontario Commercial/Industrial Solar Demonstration Program.

Funding for the PUSH program is $125 million for 1979 to 1984.

Contact: Purchase and Use of Solar Heating Program
Public Works Canada
Sir Charles Tupper Building
Riverside Drive
Ottawa, Ontario
K1A 0M2
(613) 998-9817

REGIONAL DEVELOPMENT INCENTIVES PROGRAM (RDIP)

Eligibility: Enterprises located in Northern Ontario and in a portion of Eastern Ontario interested in constructing new facilities, developing new products and modernizing or expanding existing operations are eligible for financial assistance from the Department of Regional Economic Expansion (DREE).

Description: The objective is to increase or stabilize employment in areas of slow economic growth by offering financial incentives to manufacturing and processing enterprises for development and expansion.

Manufacturing and processing industries are eligible for development incentives. However, initial processing operations, such as petroleum refining and certain elements of the pulp and paper industry, are not eligible for assistance. Processing of natural products in operations such as sawmills is eligible.

To qualify for development incentives, manufacturing and processing enterprises must have approved capital costs for new facilities, new product expansion or modernization projects at a capital cost of at least $25,000. If a new facility or product creates at least five direct jobs, the capital-cost requirement can be as little as $5,000.

The level of incentives frequently offered for new facilities or new product expansion is 25 per cent of the authorized capital costs plus 15 per cent of the annual average (one-year) wages and salary of the jobs created by the project in the second and third year of operation. Eighty per cent of the incentive becomes payable when the project has been in production for 30 days and the balance is paid three years later.

For modernization and volume expansion, the grant-funding ceilings are the lesser of:

- 20 per cent of approved capital costs
- $6 million.

There are limitations on the level of grant funding. For new facilities and new product expansion, the ceilings are the lowest of the following:

- 25 per cent of approved capital costs and $5,000 for each direct job created in the facility. The initial 20 per cent of the capital costs must not exceed $6 million
- $30,000 for each direct job created
- 50 per cent of the capital employed in the operation
- 80 per cent of the approved capital costs eligible for incentives determined by a standard formula.

This program is being absorbed under the new federal Industrial and Regional Development Incentives Program (IRDP).

Contact:

Ontario Region
Department of Regional Economic Expansion
1 First Canadian Place
Suite 4600
P.O. Box 98
Toronto, Ontario
M5X 1B1
(416) 365-3737
OR
Provincial Office
Department of Regional Economic Expansion
Court Holding Building
233 Court Street South
Thunder Bay 'P', Ontario
P7B 2X9
(807) 345-1161

OR

Branch Office
Department of Regional Economic Expansion
Royal Bank Tower
128 Larch Street
Suite 603
Sudbury, Ontario
P3E 5J8
(705) 675-0711

REMOTE COMMUNITY DEMONSTRATION PROGRAM (RCDP)

Eligibility: RCDP provides financial assistance and promotes the exchange of information to encourage the use of alternative energy sources and energy conservation in remote communities. The following are eligible:

- communities that are not served by the main electrical grid and are without access to natural gas
- companies (e.g., forestry, mining) that maintain eligible communities as part of their operations
- provincial or territorial utilities
- federal departments and Crown corporations (e.g., provincial, territorial)
- other agencies responsible for, or directly interested in, energy supply and conservation for remote communities.

To be eligible, communities must be permanent (or have at least five years of planned life remaining) and have no less than ten occupied principal residences. Within this definition, communities are eligible if:

- they are in the Yukon Territory or the Northwest Territories; or
- they are in a province but are off the main electrical grid and are not served by natural gas pipeline.

Communities for which there is firm commitment for connection to grid or natural gas distribution systems are not eligible.

Description: The program is directed at power generation and space heating in remote communities. It will support technical studies and demonstration projects dealing with off-oil alternatives and help transfer results to the communities where they are needed. RCDP will operate over a four-year period, from October 1982 to March 1986, and will be implemented in two overlapping but distinct phases.

Phase I (October 1982 - March 31, 1984)
In Phase I, the program will provide financial assistance toward the production of studies to investigate alternative-energy supply and energy-conservation options available to remote communities. These studies will assist communities in pursuing viable options themselves or in conjunction with those agencies responsible for their energy supply. Applications will be accepted from single communities, from groups of communities with common options, or from other agencies responsible for, or directly interested in, remote-community energy supply.

Phase II (Summer 1983 - March 31, 1986)
In Phase II, the program will provide financial assistance for demonstrations of practical, effective and economic

energy-supply alternatives and energy conservation. Because the costs of demonstrations are high, relatively few such projects will be undertaken. Phase II will try to demonstrate the most practical technologies and measures and those with the widest scale of application to remote communities in the most appropriate communities for demonstration. A major factor in selecting demonstrations will be their potential to increase awareness of the demonstrated options to other remote communities. Phase I participation is neither a guarantee of, nor a prerequisite to Phase II. However, the results of Phase I will be used as a basis to develop the Phase II demonstration program.

The remainder of this description applies to Phase I only.

A wide variety of studies will be eligible for consideration under Phase I including:

- energy use analyses
- energy option identification and analyses
- energy pre-feasibility and feasibility studies
- energy resource base studies.

Funding awards will be based on the merits of the proposal. Studies will normally be funded in the range of $10,000 to $25,000, although studies requiring larger contributions will be considered on the basis of their merit in the context of other proposals submitted for consideration. Joint or shared-cost proposals are preferred. Proponents are encouraged to employ other sources of cooperative funding as an element of their proposal, in particular where higher cost studies are contemplated.

The focus of the program is on mature and highly promising technologies and measures with near-term potential for implementation in remote communities. A wide range of energy-supply technologies and conservation measures is eligible for consideration under Phase I, including but not limited to:

- renewable energy supply using hydro, biomass, wind, and other fuel sources
- non-renewable energy supply using local natural gas, peat and coal sources
- cogeneration and waste-heat recovery, which permit more efficient use of oil-fueled systems
- district heating
- heat pumps
- various energy-conservation measures
- grid extensions (Phase I only).

Applicants are invited to submit proposals for Phase I financial assistance to the Conservation and Renewable Energy Office (CREO) located in their province or ter-

ritory. The staff of CREO offices will provide guidance in the preparation of proposals, if required. Copies of proposals received by EMR will not normally be returned.

Applications for assistance to carry out studies will be received up to September 30, 1983. All funded studies must be completed by March 31, 1984.

Applications will be reviewed by an advisory committee in each province or territory, which may consist of federal, provincial/territorial and other representatives. These committees will be responsible for ensuring that each proposal receives the fairest possible consideration. Proposals will be rated according to a comprehensive evaluation system based on predetermined criteria and priorities, and ranked and recommended accordingly for consideration in the national context. Full or partial funding cannot be guaranteed.

The criteria employed in the evaluation and ranking of proposals take into account:

- potential for the displacement of, or reduction in, the use of petroleum-based fuels;
- potential to promote general awareness of, and local initiative in pursuing, viable energy-supply alternatives and energy conservation measures;
- potential to lead to identification of alternative-energy supply and conservation projects;
- potential for wider scale application of the findings to other communities with similar problems or opportunities;
- social/economic benefits to the subject community, which may accrue or be identified as a result of the proposed study;
- commitment and capability of proponent to implement applicable recommendations resulting from the proposed study;
- demonstrated sensitivity of the proponent (and the consultant) to the interests and concerns of the community regarding the proposed study;
- soundness of the proposed study and the study schedule;
- technical/management capability of the applicant (and the consultant) to carry out the study;
- reasonableness of the cost of the proposed study and the amount of contribution sought under the program;
- degree of cost sharing or participation by applicant and others.

In addition, the national criteria take account of:

- equitable distribution of program funds among remote communities, provinces and territories.

- representative distribution of program funds among various alternative-energy supply and energy-conservation solutions.

Contact: Conservation and Renewable Energy Office
Energy, Mines and Resources Canada
2242 Lakeshore Boulevard West
Toronto, Ontario
M8V 1A5
(416) 252-5866
1-800-268-2207 (toll free)

OR

Program Coordinator
Remote Community Demonstration Program
Renewable Energy Division
Conservation and Non-Petroleum Sector
Energy, Mines and Resources Canada
Ottawa, Ontario
K1A 0E4
(613) 995-9467

RESEARCH AGREEMENTS PROGRAM (RAP)

Eligibility: Any established Canadian research organization that is not directly managed by the federal government and undertakes research activities in the natural, physical, social and engineering sciences, is eligible for research agreements with Energy, Mines and Resources Canada.

Eligible organizations include universities and university research institutes, research councils, industrial research laboratories and museums with ongoing research programs.

Description: RAP is designed to utilize a wide range of disciplines and technologies to enhance the use of mineral and energy resources and to provide information on Canada's landmass. The program encourages research in a wide range of disciplines that support the major objectives of Energy, Mines and Resources Canada (EMR). EMR has two major objectives:

- to ensure the effective use of mineral and energy resources for the present and future benefit of the nation
- to provide information about the landmass and its use in government and to the community at large, so that land resources and distinctive physical attributes may be used intelligently and beneficially. Disciplines that support these objectives include:

- geological sciences, geophysics, geotechnique, geodesy, photogrammetry and cartography
- mining engineering, petroleum engineering, civil engineering, electrical engineering, nuclear engineering and metallurgy
- economics, sociology, political science and law
- geography
- management sciences, business administration and statistics

Multidisciplinary studies will be accepted under the program. Research proposals are evaluated according to the following criteria:

- potential contribution of the research to one of EMR's stated objectives
- scientific quality
- creativity
- feasibility
- competence of the investigator
- suitability of the applicant's facilities
- existence of similar or related projects
- manpower training potential
- importance of developing the competence of the participating agency
- timeliness
- costs relative to probable benefits

Funds awarded under RAP are to be used only for expenses that directly relate to the research project. Funds may be used for the payment of assistants, limited travel related directly to the research project, services, and for the purchase of supplies, materials and special apparatus required for investigation. Research funds may not be used for the purchase of such items that a well-equipped research organization should possess. Funds are not intended to cover overhead costs of the recipient organization. Funds are provided for the operating expenses for a one-year term. Unspent balances at the end of a one-year term will not lapse if the research is to continue with prior approval by EMR.

Contact:

Coordinator
External Research Programs
Energy, Mines and Resources Canada
580 Booth Street
Ottawa, Ontario
K1A 0E4
(613) 992-5265

RESIDENTIAL REHABILITATION ASSISTANCE PROGRAM (RRAP)

Eligibility: Owners of substandard housing may qualify for loan assistance to cover the cost of repairs. Non-profit corporations and co-operatives may also obtain assistance under this program.

Description: RRAP is designed to assist homeowners living in designated areas*. Individual homeowners may receive loans of up to $10,000. Up to $5,000 may not have to be repaid, depending on the applicant's cost of repairs and "adjusted" annual income.

A homeowner in any part of the country may receive the maximum $10,000 RRAP loan for making a dwelling accessible to a disabled person. To qualify for assistance, the applicant must be a disabled owner, or own and live in the home with a disabled person. Repairs or alterations must make the residence more accessible for the disabled person and must meet Canada Mortgage and Housing Corporation (CMHC)/RRAP standards when the work is completed. If repairs are undertaken that represent a combination of standard RRAP work plus alterations geared to the special needs of disabled residents, the maximum loan becomes $13,000 with a maximum forgivable portion of $6,500.

A dwelling may receive RRAP assistance if it is substandard in at least one of the following areas: structural soundness, plumbing, electrical wiring, heating or fire safety. These areas are given funding priority. However, a number of other improvements, including installation of insulation and other measures to improve thermal efficiency, are eligible.

The loans are provided by the Canada Mortgage and Housing Corporation (CMHC). Loan repayment can be scheduled over a 20-year period. Rehabilitation can help reduce fuel and maintenance costs and may increase the market value of the property.

Landlords may also receive loans under the program. Forgivable loans are available for up to 50 per cent of the cost of repairs to a maximum of $3,500 per dwelling unit for basic structural repairs or $5,000 if a combination of standard RRAP work and alterations for disabled residents are undertaken. The forgivable portion of the total loan has the additional effect of reducing interest costs on any borrowed funds.

*RRAP is universally available to non-profit corporations, co-operatives and those wishing to renovate for the disabled provided that the local municipality has occupancy and maintenance by-laws or residential standards acceptable to CMHC.

Contact: The CMHC branch office nearest you
OR
your local Municipal Office

SMALL BUSINESS LOANS ACT (SBLA)

Eligibility: Small business involved in manufacturing, service operations, wholesale and retail trade, construction and transportation are eligible for financial assistance under the Small Business Loans Act. Gross revenues of the applicant must not exceed $1.5 million during the fiscal year in which the application is made.

Description: The purpose of the program is to provide loan incentives to improve the small-business sector. The SBLA authorizes chartered banks and other financial institutions such as credit unions and trust companies to provide loans to small businesses for the purchase of land, equipment and buildings.

SBLA loans are available for:

- the purchase of fixed or movable equipment, including the cost of installation of fixed equipment and the renovation, improvement or modernization of equipment;
- the purchase or construction of new premises or the improvement or modernization of existing premises in which the business is conducted;
- the purchase of land for the operation of a business including the purchase of buildings thereon.

Loans can be used to finance up to 80 per cent of the cost, including installation of fixed or movable equipment. Loans also cover up to 90 per cent of the cost of the purchase or construction of new premises, the purchase of land or the renovation or improvement of existing premises.

The maximum loan that can be outstanding for any one borrower at any one time is $100,000. The rate of interest on SBLA loans is one per cent over the prime lending rates of the chartered banks. Interest charges fluctuate with changes in the prime lending rates for the duration of the loan. The maximum period over which the loan can be repaid is 10 years and all SBLA loans must be secured. Loan security can be in the form of land or chattel mortgages or other arrangements acceptable to the lender. SBLA-guaranteed loans are made directly between the borrower and eligible lender and no prior approval by the federal government is necessary. This approach prevents unnecessary delays. Refinancing of debts and working capital requirements are not eligible for funding under the SBLA.

Contact: Manager
Business Information Centre
Department of Industry, Trade and Commerce
1 First Canadian Place
Suite 4840
P.O. Box 98
Toronto, Ontario
M5X 1B1
(416) 369-4941
Zenith: 0-3200

OR

Small Business Loans Administration
Programs Branch
Department of Industry, Trade and Commerce
235 Queen Street
Ottawa, Ontario
K1A 0H5
(613) 995-0497

SOLAR ENERGY RESEARCH AND DEVELOPMENT PROGRAM

Eligibility: Any group or individual engaged in solar research and development may respond to requests for proposals by the National Research Council of Canada (NRCC). Unsolicited proposals may also be submitted to Supply and Services Canada.

Description: The objective of the program is to develop the scientific and technical capability to exploit solar energy and provide for maximum industrial advantages for Canada in this area. The program encompasses research and development on active and passive solar-thermal systems and photovoltaics. Through an evaluation of the needs for solar development, projects involving private-sector participation are sought through requests for proposals. This contracting-out activity has been maintained over the last several years at a level of approximately 150-200 contracts. Public information on the program is available through the Energy Inquiry Centre of the NRCC. Technical information for scientists and engineers is available through the Solar Technical Information Office at the NRCC.

The program is funded under the federal government's energy-research and development budget. The principal agencies involved in related activities include CMHC, Energy, Mines and Resources Canada, Environment Canada, Agriculture Canada and Public Works Canada.

On July 7, 1983, Energy, Mines and Resources Canada announced a $79 million program to support solar research, development and demonstration projects. Demonstration projects will be jointly funded with the private sector.

Contact: Solar Energy Program
Solar Technical Information Office
National Research Council of Canada
Montreal Road
Ottawa, Ontario
K1A 0R6
(613) 993-9224

SPECIAL OLD OIL PRICE SUPPLEMENT (SOOP)

Eligibility: Ontario producers of oil discovered after 1973 and prior to 1981 are eligible for special supplements. SOOP oil is defined in the Petroleum Compensation Program Regulation pursuant to Section 75 of the Energy Administration Act. In general terms, SOOP oil includes:

- oil obtained from a well drilled and completed on or after January 1, 1974 but before January 1, 1981.

Description: The SOOP supplement, introduced July 1, 1982, was one of the measures announced in the National Energy Program Update 1982. The purpose of the supplement is to provide stimulus to the petroleum industry by improving cash flow positions of producers. This supplement is paid to eligible producers on the basis that the price for this category of oil is 75 per cent of the international price.

The program is administered by the Ontario Ministry of Natural Resources on behalf of the Oil Pricing and Compensation Programs Branch of Energy, Mines and Resources Canada.

The supplement payments for fiscal 1982-83 are estimated to be $175 million nationally and $820,000 for the Province of Ontario.

Contact: Petroleum Resources Section
Ontario Ministry of Natural Resources
1106 Dearness Drive
London, Ontario
N6E 1N9
(519) 681-5350

STRATEGIC GRANTS IN AID OF RESEARCH

Eligibility: Academic staff of Canadian universities conducting research in the natural sciences and engineering are eligible for grant funding from the Natural Sciences and Engineering Research Council (NSERC). Under the program, energy is identified as an area eligible for support.

Description: Strategic grants support university research aimed at contributing to the understanding or solution of problems of a national concern. Research projects supported by these

grants can be of an applied or basic nature, provided that the work contributes to specified areas of socio-economic importance. Researchers may apply for strategic grants individually or in groups. Group applications that demonstrate a multifaceted approach are encouraged by NSERC. Researchers intending to apply for large group grants of more than $100,000 are advised to contact NSERC for assistance with the application process and to schedule site visits.

Applications are reviewed by grant-selection panels on the basis of the excellence of the applicants, the merit of the research proposal and its relevance to the selected area. The application must be submitted by May 1 of each year. Awards are announced in October. Individual and group grants may be awarded on a one, two or three-year basis as determined by the requirements of the research program.

NSERC awarded $26 million in 1982-83 for strategic grants, including $7.4 million for energy.

Contact: Director of Programs
Natural Sciences and Engineering Research Council
Montreal Road
Ottawa, Ontario
K1A 0R6
(613) 993-3066

SUPER ENERGY-EFFICIENT HOME (R-2000) PROGRAM (SEEH)

Eligibility: Builders that are interested in constructing a super energy-efficient home may qualify for financial assistance under the Super Energy-Efficient (R-2000) Home Program.

Description: The federal government has allocated $6 million to assist in the construction and demonstration of 300 super energy-efficient homes across Canada. The program is being administered on behalf of Energy, Mines and Resources Canada (EMR) by the Housing and Urban Development Association of Canada (HUDAC). The objectives of the program are: to transfer information on the construction of low-energy housing to the industry; to gain data on energy consumption and savings; to improve awareness of the construction techniques and costs associated with super energy-efficient housing and to demonstrate homes that require less than 50 kWh per square metre for space heating.

A grant of $6,500 per house is available to builders to offset additional costs associated with participating in the program.

Training in the techniques of energy-efficient design and construction, design analysis and public relations will be provided. Houses constructed under the program will be monitored for two years.

Contact: Please direct inquiries in writing to:

SEEH (R-2000) Program
Energy Conservation and Oil Substitution Branch
Energy, Mines and Resources Canada
580 Booth Street
Ottawa, Ontario
K1A 0E4
(613) 995-1118

TRANSPORTATION AND ENERGY INITIATIVES

Eligibility: Research agencies, fleet owners and transportation equipment manufacturers may receive a wide variety of information on alternative fuels and conservation methods from Energy, Mines and Resources Canada (EMR).

Description: **Transportation: Alternative Fuels Research and Development**

The alternative fuels research and development initiative is a product of the National Energy Program (NEP). It has funding in the range of up to $100 million for research and development of new liquid fuels between 1981 and 1983. The federal government expects research funds from Canadian industries and provincial governments to supplement these efforts.

Transportation: Automobile Workshops and Seminars

Funds are available each year between 1980 and 1985 to help automobile driver associations and other organizations conduct workshops, seminars, and demonstrations on energy-conserving driving and operating techniques. The program is complemented by a study on attitudes and awareness of fuel-conserving measures related to automobiles.

Transportation: Federal Propane Motor-Fuel Demonstration

This program is designed to demonstrate the use of propane as a motor fuel for fleets. The federal government proposes to have at least 8,000 vehicles powered by propane by 1985. Data collected over this period will provide documented Canadian experience with propane-vehicle operations. The program will offer public information on fuel consumption and costs, propane-vehicle maintenance, propane-carburetion equipment and financial savings realized by conversion. Information on the supply and distribution of propane is also available.

Transportation: Truck Energy-Conservation Demonstration

A technical-information-transfer program is under development for trucking companies.

Compressed Natural Gas (CNG) Incentives

On February 5, 1983, Energy, Mines and Resources Canada announced two programs that support the use of compressed natural gas (CNG) as an alternative to gasoline. The first program provides a taxable contribution of up to $50,000 to be provided to approximately 125 fueling station operators who intend to install a CNG outlet. All stations opened between May 31, 1982 and March 31, 1987 will be considered for funding.

The second program offers taxable contributions to both commercial users and private consumers of up to $500 toward the estimated $1800 cost of converting a vehicle to CNG. A goal of 35,000 conversions has been set for this program which will be in effect from April 1, 1983 to March 31, 1987. Anyone converting vehicles after February 5, 1983 can apply to the program.

Contact: Communications Branch
Energy, Mines and Resources Canada
580 Booth Street
Ottawa, Ontario
K1A 0E4
(613) 995-3065

UNSOLICITED PROPOSALS FOR RESEARCH AND DEVELOPMENT

Eligibility: All incorporated or registered commercial enterprises, resident and operating in Canada, that are engaged in technological research and development, are eligible to submit unsolicited proposals to the federal government. Non-profit organizations, universities and other public institutions in Canada are also eligible to submit unsolicited proposals. Preference will be given to organizations that submit proposals in conjunction with a commercial enterprise. Research projects must specifically relate to existing federal government departmental programs.

Description: An unsolicited proposal is a written proposal submitted to the federal government by an individual or an organization on its own initiative to satisfy a public-sector science and technology requirement. The program was established in 1974 to enable the federal government to respond to unsolicited proposals from the private sector. The objective is to encourage industry, through government funding arrangements, to contribute to the enhancement of the technological base in Canada. The Science and Professional Services Directorate of Supply and Services Canada administers the program. Proposals are evaluated by an interdepartmental committee chaired by the Directorate.

An unsolicited proposal must meet the following criteria:

Sponsorship
The proposal must be sponsored by an appropriate federal department. The department must consider the proposal in terms of its overall goals and must be able to incorporate the proposal into the department's future programs budget. The department must also designate a scientific officer who will be responsible for monitoring the progress of the work.

Scientific Merit and Technical Feasibility
The proposal must be deemed to have scientific merit and be technically feasible.

Uniqueness
The proposal must be declared unique by the Directorate to justify waiving the normal competitive procurement process. Uniqueness can mean that the proposal offers a unique idea or that the applicant has a special capability for conducting the proposed work.

If a proposal is successful and sufficient government funding is available, a contract will be negotiated with the applicant by the Directorate on behalf of the sponsoring department. The unsolicited proposals fund provides bridge financing to initiate projects pending their incorporation into existing departmental programs. Project funding ranges from approximately $10,000 to more than $1 million.

Contact:
Head
Unsolicited Proposals Program Support Group
Supply and Services Canada
Place du Portage, Phase III, 12C1
11 Laurier St.
Hull, Quebec
K1A 0S5
(819) 997-7442
(819) 994-0449

ONTARIO
FINANCIAL INCENTIVES

AGREEMENTS UNDER THE WOODLANDS IMPROVEMENT ACT

Eligibility: Owners of five or more acres of land, exclusive of structures, that is approved by the Ministry of Natural Resources as suitable for planting trees and/or woodland improvement, may qualify for assistance under the Woodlands Improvement Act.

Description: Two forms of assistance are available:

Woodlands Improvement Act Agreement (WIA)
Under the Act, the Minister of Natural Resources may enter into agreements with landowners to plant trees on their properties and/or to improve existing woodlands. The owners of the land agree to a management plan approved by the Ministry that will include a program of tree planting and/or woodlot improvement. Estimated costs to the Minist:- for this work during the period of the agreement must also be provided. The owners pay for trees to be planted and protect the manged area from grazing, fire, insects and diseases. Landowners experienced in forestry work may participate in the tree planting and/or woodland improvement and be reimbursed for such work as stated in the individual agreements.

Advisory Services Agreements (ASA)
Owners cannot renew WIA agreements when they expire, but may enter into Advisory Services Agreements with the Ministry. These provide the owners with working plans for managing their properties, marking trees for improving their woodlots and general advisory services.

Owners carry out the necessary forestry work at their own expense. Landowners eligible for WIA agreements may elect to enter into ASA's if they wish.

Both agreements are for periods of 15 years or more. The Ontario government appropriates funding for this work.

Owners of WIA agreements or of ASA's may qualify under the Managed Forest Tax Reduction Program for a tax refund on the managed-forest portion of their properties. The Ministry of Natural Resources and the Ministry of Municipal Affairs and Housing administer this program.

In addition, the Ministry provides a free advisory service to farmers and other woodland owners. The advice will assist owners with:

- planning the area to be planted
- improving woodland productivity
- marking trees to be cut

- estimating the volume of wood for harvesting
- contacting timber buyers
- controlling fire, insects and disease
- managing wildlife
- improving the landscape.

Owners are eligible for up to four days of free service each year

Contact: Woodlands Improvement Act Agreements
Ministry of Natural Resources
Whitney Block
3rd Floor
99 Wellesley Street West
Toronto, Ontario
M7A 1W3
(416) 965-2785

OR

Consult your telephone directory for the nearest Ministry of Natural Resources District Office.

ALTERNATIVE TRANSPORTATION FUELS PROGRAM

Eligibility: Enterprises, individuals and municipal governments interested in the development and commercialization of alternative transportation fuels are eligible for financial assistance.

Description: In 1980, the Ontario Government introduced the $75-million, five-year Alternative Transportation Fuels Program. The government's energy policy is directed at accelerating the development of alternative fuels and encouraging their substitution for conventional fuels in the transportation sector. The short-term goal of the policy (1985) is to substitute 2 per cent of the gasoline used in Ontario by promoting the use of propane, natural gas and alcohol. The long-term objective of the policy (1995) is to have alternative fuels displace 10 per cent of the total transportation fuel used in Ontario.

The utilization of commercially available alternative fuels is encouraged through promotions and incentives.

Research, development and demonstration are being accelerated for alternative fuels not yet commercially viable. Long-term alternatives such as electric vehicles, alcohol fuels and hydrogen are being developed for commercial exploitation.

It is expected that the private sector will cost-share with the province in many areas, especially in the demonstration and commercialization stages. Cost-sharing agreements will also be sought under the federal Energy Research and Development Program.

Delivery of major elements has been arranged through a number of provincial agencies including Transportation and Communications, Agriculture and Food, Industry and Trade, the Urban Transportation Development Corporation, the Ontario Energy Corporation and Ontario Hydro.

Contact: Alternative and Renewable Energy Group
Ministry of Energy
56 Wellesley Street West
Toronto, Ontario
M7A 2B7
(416) 965-4366

DEVELOPMENT CORPORATIONS

Eligibility: Secondary manufacturing and service industries requiring financial assistance for project development are encouraged to approach the Development Corporations.

Description: The mandate of the Development Corporations is to promote economic development and employment growth in Ontario by providing selective financial assistance for the creation and expansion of secondary-manufacturing enterprises. Funding is regionally distributed through three Crown Corporations:

- The Ontario Development Corporation (ODC)
- The Northern Ontario Development Corporation (NODC)
- The Eastern Ontario Development Corporation (EODC)

The Development Corporations' experts review project proposals. Applications are assessed against economic, regional and social criteria to ensure compatibility with the province's economic interests. Projects eligible for assistance include construction of buildings or the purchase of existing buildings; initial commercial production of products involving new technology; purchase of pollution-control and energy-saving equipment; and the purchase and/or renovation of the fixed assets of a viable foreign-owned Ontario-based company that would otherwise discontinue production.

Funding assistance available from the Development Corporations is normally combined with financing from private sources or from other government programs. Generally, financial participation by the Development Corporations is in the form of loan guarantees, term loans or export lines of credit. The Corporations' normal lending limits are $500,000 for individual term loans and $1,000,000 for loan guarantees and export credit lines.

Contact: Information Officer
Development Corporations
1200 Bay Street
Queen's Park
Toronto, Ontario
M7A 2E7
(416) 965-4622

ENERGY FROM WASTE (EFW) PROGRAM

Eligibility: Enterprises and individuals engaged in developing energy from waste and biomass projects may qualify for technical and financial assistance under this program.

Description: The EFW program is a key component of the Ontario Government's policy to produce 37.5 per cent of the province's primary energy by 1995 from indigenous provincial sources versus 23.5 per cent in 1980. The program is intended to provide for the annual production of the energy equivalent of 27 million barrels of oil by 1995 from municipal solid wastes, forest wastes and resources and agricultural wastes and resources. Various assistance options are available to encourage project development. Normally, project development will be undertaken in three phases:

- preliminary assessment
- detailed feasibility study
- final design and financing.

Preliminary assessment assistance is available through the Ministry of Energy, in co-operation with other appropriate ministries such as Agriculture and Food, Natural Resources, Environment and Industry and Trade.

Projects that appear feasible during the preliminary assessment phase may be eligible for partial financial support for further study and development. Support will be contingent on the relevance of the project to the EFW program. Up to 50 per cent of the total eligible project costs could be provided.

Projects developed to implementation may also be eligible for supplementary capital support. In view of the widely differing types of projects and the extensive range of ownership and financing options possible, the province has adopted a flexible approach in its supplementary capital support program. Funding will be based on the individual merits of the project.

Contact: Manager
Energy From Waste/Biomass Section
Alternative and Renewable Energy Group
Ministry of Energy
56 Wellesley Street West
Toronto, Ontario
M7A 2B7
(416) 965-0309

MUNICIPAL OIL CONVERSION AND ENERGY CONSERVATION PROGRAM

Eligibility: All Ontario municipalities are eligible for funding assistance under the Municipal Oil Conversion and Energy Conservation Program.

Description: This $4-million program will help Ontario municipalities reduce energy consumption and save tax dollars. Phase I, introduced in August 1981, provides funds for converting municipal buildings from oil to alternative heating fuels such as electricity, natural gas and wood. Phase II encourages energy conservation by providing financial assistance to help offset the cost of energy conservation and retrofit projects.

Provincial assistance for individual projects under each phase of the program is available for up to 50 per cent of the project cost, to a maximum of $50,000.

Funding priority for both conversion and conservation projects is given to those with payback periods of from one to five years. Generally, projects with a payback period of less than one year are not considered. Funding for projects with payback periods of more than five years is limited to a maximum of 20 per cent of the project cost.

Grants can be used only for direct costs of conversion or conservation projects, not for general repairs or for replacement of worn-out equipment. Up to $2,000 may be provided for consultant fees.

Municipalities will be asked to monitor the energy consumption for a one-year period after completion of the oil-conversion or energy-conservation project, comparing fuel consumption and costs to those accrued during the year prior to the project.

Contact: Municipal Oil Conversion and Energy Conservation Program
Energy Conservation Group
Ministry of Energy
56 Wellesley Street West
Toronto, Ontario
M7A 2B7
(416) 965-5743

ONTARIO ENERGY CORPORATION (OEC)

Eligibility: Individuals and enterprises interested in the commercial development of energy projects may approach the Ontario Energy Corporation for financial participation.

Description: The OEC was established in 1975 by the Ontario Energy Corporation Act. Its mandate is to assist the Ontario

Government in the pursuit of a more secure energy future for Ontario through investments in profitable energy ventures.

The Corporation invests, on the equity basis, in energy projects throughout Canada to:

- enhance the availability of energy in Ontario
- stimulate exploration for the development of new sources of energy
- stimulate expansion of the capability to produce energy
- encourage investment in energy projects and the effective use of financial, human and other resources in energy projects
- encourage the development of processes and equipment that will avoid wasteful use of energy and will minimize harm to the environment.

The OEC is a unique combination of public and private enterprise. Although all shares are held by the Minister of Energy, the OEC finances its own operational costs and is responsible to an independent board of directors. It operates like a private investment company within the policy parameters set by the Ontario Government.

Investment by the OEC in projects is primarily based on the principle that its support of energy ventures should enhance the activities of the private sector. Before the Corporation enters into an investment agreement, it conducts a detailed evaluation of the technical and commercial feasibility of the proposal. In addition, it evaluates the investment using the following criteria:

- Is the investment compatible with the OEC's objectives?
- Is there the potential for the OEC for obtaining interest in tangible assets or other commercial property?
- Would the participation by the OEC be primarily in an investing or a financing role, rather than an operating role?
- Is a subsidy or grant being requested from the OEC? (The OEC does not provide subsidies or grants.)
- Is the investment compatible with the Ontario Government's energy policy?

The OEC will consider investments in start-up projects, expansion activities and project financing. The Corporation is interested in a wide range of energy-related areas including alternate fuels, conservation, renewable-energy sources, energy technology and products and oil and natural gas.

No limits are placed on investments made by the OEC. However, equity participation normally involves $100,000 or more. Private companies, partnerships or joint ventures will be considered for investment purposes.

Investments made by the OEC normally take the form of equity or securities. The equity percentage range is up to 50 per cent and directorships or the equivalent are required. Consulting and placement fees are charged by the OEC and geographic preference is limited to Canada.

Contacts: Vice-President, Corporate Development
Energy Technology
Ontario Energy Corporation
101 Bloor Street West, 5th Floor
Toronto, Ontario
M5S 1P7
(416) 926-4226

OR

Manager
Energy Resources (Oil and Gas)
Ontario Energy Corporation
101 Bloor Street West, 5th Floor
Toronto, Ontario
M5S 1P7
(416) 926-4218

ONTARIO HOME RENEWAL PROGRAM (OHRP)

Eligibility: Low-income owners of substandard housing are eligible for OHRP rehabilitation assistance.

Description: The program is designed to assist in upgrading a property to meet local minimum housing standards. Loan assistance is available to:

- improve faulty structural and sanitary conditions
- upgrade plumbing, insulation, heating and electrical systems

A loan plan consisting of repayable and forgivable portions is available to individuals whose "adjusted family income" does not exceed $15,500. The maximum loan available to eligible homeowners is $7,500. The maximum amount of the loan that may be forgiven cannot exceed $4,000. The forgivable portion of the loan is earned by continued ownership and occupancy of a property for a period of time.

The interest rate on the repayable portion is tied to family income. For those earning less than $3,000, no interest charges would be applied. Up to 8% would be charged on loans to individuals who earn more than $8,000.

The program is available to residents through participating municipalities in most areas of Ontario. In areas that are not situated within existing municipal boundaries, assistance is provided through the Ministry of Northern Affairs field offices.

Contact: Detailed information and application forms are available at your local Municipal Office.

OR

For areas not situated within existing municipal boundaries, contact your nearest Ministry of Northern Affairs field office.

OR

Community Housing Division
Ministry of Municipal Affairs and Housing
12th Floor
101 Bloor Street West
Toronto, Ontario
M5S 1P8
(416) 965-9650

ONTARIO MINERAL EXPLORATION PROGRAM (OMEP)

Eligibility: Prospectors, non-producing exploration companies, corporations and individual investors may qualify for financial or tax incentives.

Description: The program encourages mineral exploration in Ontario through grants and tax credits. For the purposes of this program, a mineral resource is defined as a base metal or a precious metal or a coal deposit. These incentives are intended to reduce the degree of risk associated with mineral exploration. The following incentives are available:

- eligible prospectors or individuals actively involved in mineral-exploration projects will receive a grant of 25 per cent of eligible exploration expenses
- eligible individual investors in a syndicate, partnership or similar unincorporated organizations, will receive a grant equal to 25 per cent of eligible exploration expenses
- eligible exploration companies, not involved in mineral production in Ontario or associated with any person actively engaged in mineral production in Ontario, will receive a refundable tax credit equal to 25 per cent of eligible exploration expenses. In other words, these companies may apply for a cash grant equal to the amount of the unused tax-credit entitlement
- eligible corporations not involved in any mineral activities will receive an income tax credit equal to 25 per cent of eligible exploration expenses. Unused credits may be carried forward indefinitely.

To be eligible for assistance, individuals must be Canadian residents, must not be actively engaged in mineral production in Ontario and must not be associated with any person actively engaged in mineral production in Ontario. All grants and tax credits will apply to funds spent on eligible exploration activities in Ontario.

Expenditures on exploration activities conducted before production is carried out will qualify for OMEP funding. Examples of such activities include:

- preliminary examination of the property including mapping and a geologist's report
- prospecting on the property
- geophysical, geological and geochemical surveying
- surface and underground drilling by core drill or by other than core drill and overburden test drilling for exploration purposes only.

All eligible activities are specified in the Ontario Mineral Exploration Program Act.

Only 25 per cent of the following expenses will qualify:

- capital cost of machinery owned by the applicant and used in the exploration program calculated on a diminishing-balance basis from the date of purchase or acquisition
- shaft sinking, drilling and other lateral work, and excavation of adits and declines, excluding rental and depreciation of machinery used
- construction of temporary access roads, temporary camp structures and other temporary infrastructures and surface preparation.

Expenditures related to future production of ore will not qualify. Expenditures for the production of oil, gas and mineral aggregates (i.e. sand, gravel, stone, gypsum, salt and associated minerals) are not eligible for assistance.

Exploration expenses incurred after 1980 will be reduced by the amount of any assistance or benefit received from the government for income tax purposes.

Contact: Ontario Mineral Exploration Program
Ministry of Natural Resources
Room 4649, Whitney Block
Queen's Park
Toronto, Ontario
M7A 1W3
(416) 965-1062

OR

any Regional District Office of the Ministry of Natural Resources.

ONTARIO MUNICIPAL ENERGY AUDIT PROGRAM

Eligibility: All municipalities in Ontario are eligible. Counties and regional governments may apply on behalf of their area municipalities.

Description: The objective of the program is to reduce energy consumption and costs in municipalities. Grants are provided to employ municipal energy auditors who will measure energy consumption and develop conservation methods and procedures. Municipalities should submit proposals for a one-year audit program to the Subsidies Branch of the Ministry of Municipal Affairs and Housing. Proposals should include:

- a statement of the objectives to be achieved by participating in the program, including a firm estimate of the energy savings to be realized
- a statement of the qualifications to be sought in an energy auditor and a description of the duties to be performed
- a statement of the support services to be provided by the municipality
- a statement of the estimated costs of employing an energy auditor, including salary and benefits, travel, supplies, equipment, administration, etc.

The Ontario Government reimburses 80% of the total costs of employing an energy auditor, including salary and benefits, travel, supplies, equipment and administration, up to $20,000. An advance payment equal to 50% of the first year's estimated grant is made when an approved municipality hires its energy auditor. A semi-annual payment will then be made upon receipt of the auditor's reports.

In addition, the Ministry of Municipal Affairs and Housing offers an information seminar in 1983-84. The seminar will provide energy auditors with an opportunity to exchange information and participate in training sessions. The Ministry of Energy will provide technical advice and information to the auditors.

Contact: Program Administrator
Subsidies Branch
Ontario Municipal Energy Audit Program
Ministry of Municipal Affairs and Housing
56 Wellesley Street West
Toronto, Ontario
M7A 2R8
(416) 965-3500

PROGRAM TO ENCOURAGE PRODUCT AND PROCESS INNOVATION (PEPPI)

Eligibility: Inventors or small business entrepreneurs in Ontario are eligible for financial assistance.

Description: This program assists inventors and small business entrepreneurs who lack both the funds and the manufacturing facilities to create a prototype of an invention. Funding is available for new and innovative products or processes that have good market potential and exceed $15,000 in total costs. Financial assistance of 100 per cent of total eligible project costs is available up to $10,000.

Eligible costs include:

- materials, parts and components of the prototype
- building of a prototype using outside facilities
- testing of materials and functions of the project prototype
- research and development applied to specific design problems.

Non-eligible costs include:

- salaries or wages of the applicant or a representative
- capital expenditures in plant and equipment including tooling and preproduction costs
- acquiring patents or other appropriate protection
- legally required certification testing
- packaging, industrial design, promotional material and sales literature
- development of product specifications and engineering drawings
- marketing studies
- travel costs, living expenses, phone calls or other business and personal expenses
- any costs incurred prior to Ministry approval.

The project must be completed within 12 months and must be commercially viable within 12 months after completion.

Contact: Ontario Area Field Office
Small Business and Field Services Branch
Ministry of Industry and Trade
See Appendix D

PROMOTIONAL AIDS MARKETING PROGRAM (PAMP)

Eligibility: Manufacturing companies based in Ontario and engaged in launching a new product are eligible for PAMP financial assistance.

Description: The purpose of the program is to assist firms that are ready to promote a new product but that lack the necessary funds. The product must be innovative, well designed, commercially viable and have a minimum sales potential of $200,000 in the first year. A solid marketing plan supported by relevant data must be developed by the applicant.

The Ontario Government will provide assistance totalling 50 per cent of eligible costs, up to $7,500. The firm will be reimbursed for costs upon completion of the project. Progress payments are available through special arrangements.

The applicant retains title to patents, designs, technical data and materials. The applicant must ensure that the project does not infringe on existing patents, copyrights, trademarks, industrial design or other intellectual property.

Approvals must be obtained to show that the product conforms to all mandatory marketplace regulations in areas where it will be sold.

Contact: Ontario Area Field Office
Small Business and Field Services Branch
Ministry of Industry and Trade
See Appendix D

RESIDENTIAL ENERGY ADVISORY PROGRAM (REAP)

Eligibility: REAP is directed at homeowners who are experiencing energy-efficiency problems such as rising fuel costs, poor insulation, older heating systems and inadequate wiring.

Description: REAP is designed to provide technical as well as financial assistance to residential electrical-utility customers for assessing their energy needs and making necessary changes for safe and efficient home-energy use. The program was developed in response to a variety of energy problems facing the homeowner. For example, the increase in home-heating fuel prices is producing greater use of electric heat in different forms, resulting in a need to provide information to the customer on the efficient use of such systems; many homes do not have sufficient insulation and do not qualify for assistance under the Canadian Home Insulation Program (CHIP); often older homes do not have adequate and safe electrical systems, and major changes or a series of small changes to heating systems require a large dollar outlay that can act as a barrier to improving home-energy efficiency.

REAP provides an energy survey to homeowners free of charge. Recommendations on how to improve home energy efficiency are developed from the results. Informa-

tion on the adequacy of electrical wiring in the home and suggestions for improvement are also provided. Cost estimates of the available electrical-heating options can be provided to customers who intend to convert their heating systems or hot-water heaters to electricity. Information on qualified contractors is also available.

Financial assistance is available to customers to carry out the necessary improvements. Loans can be provided by Ontario Hydro at attractive rates with arrangements made through the Ontario Hydro Rural Offices or municipal hydro utilities. Loans of up to $2,000 per household are available with a repayment period of up to five years.

Follow-up inspections will be completed after changes have been made to check for proper performance of equipment and insulation.

In addition, REAP can provide homeowners with a variety of information on home heating costs and CHIP and COSP grants. Advice is also available on the installation, operation and economics of heat pumps.

Contact: Your local municipal utility or Ontario Hydro Rural Office

OR

Senior Policy Advisor
Electric Power Section
Conventional Energy Group
Ministry of Energy
11th Floor
56 Wellesley Street West
Toronto, Ontario
M7A 2B7
(416) 965-8073

SMALL BUSINESS DEVELOPMENT CORPORATIONS (SBDC)

Eligibility: Individuals, pension funds, credit unions, caisses populaires and corporations interested in investing in small business in Ontario are eligible for grants or tax incentives.

Description: The Small Business Development Corporations Act was introduced in 1979 to stimulate private-sector investment in small business and to encourage the development of new enterprises in Ontario. SBDC's may be established by investors under the Act to direct equity funds and to provide business and managerial expertise to eligible small businesses.

Investors in a SBDC receive a financial incentive equal to 30 per cent of the amount invested in the SBDC from the Province of Ontario. Financial incentives are given in the form of grants to individuals, pension funds, credit unions and caisses populaires. Corporations that purchase equity shares of an SBDC are entitled to a 30-per-cent tax credit against Ontario Corporations Income Tax.

SBDC's are private enterprises. They are not government sponsored, nor are they Crown Corporations.

Investors may establish an SBDC through incorporation with the Ministry of Consumer and Commercial Relations. Owners of small businesses may not set up their own SBDC to invest in their own business. The interests of small-business owners are protected in these ways:

- An SBDC cannot purchase more than 49 per cent of the voting shares of a small business.
- Two or more related SBDC's cannot purchase more than 60 per cent of the voting shares of the same small business.
- An SBDC cannot obtain the right to nominate a majority of the board of directors of the small business.
- An SBDC must give the other shareholders the right of first refusal, if an SBDC chooses to sell any of its shares to the small business. If these other shareholders of the small business do not buy the shares, the SBDC may sell the shares to a third party on the same terms and conditions.

A small business may be eligible for investment capital from an SBDC if it fulfills these general criteria:

- is a Canadian-controlled corporation
- has no more than 100 full-time employees
- pays 75 per cent of salaries and wages in respect of operations in Ontario
- ascertains that the relationship between the investors and the small business does not involve immediate relatives, partners and companies in which the investor holds more than 10 per cent of the equity shares and trusts or estates in which the investor stands to benefit or in which the investor serves as a trustee
- is primarily involved in manufacturing and processing, tourist activities, book publishing or research and development activities.

Since July 1, 1979, 347 SBDC's have been registered. Total issued capital for these corporations is $146.5 million and investments totalling $128.9 million have been committed throughout Ontario.

In the May 10, 1983 Budget, the Treasurer of Ontario announced the following amendments to the Small Business Development Corporations Act and Regulations:

- The limit on the number of full-time employees allowed for a small business to be eligible for an investment by an SBDC will be increased from 100 to 150. In addition, the small business will remain an eligible investment until the number of employees exceeds 300, in which case, the SBDC investment in that business will cease to be eligible after five years.

- The application of the SBDC program will be changed by imposing a limit of $5 million on the total allowable investment by any number of SBDC's in any one small business. This will apply to private and public SBDC's.
- The exclusion of the production of animated films and videotapes from the definition of eligible manufacturing and processing activities will be removed.
- The definition of an eligible pension fund will be amended to include a limited partnership, where the general partner is a corporation not eligible to receive a grant under the present regulations. In this case, the general partner must waive any interest in the incentive payable to the partnership.
- The implications of the federal Special Recovery Share-Purchase Tax Credit, announced in the April 19, 1983 Federal Budget, will be reviewed to determine the likely effect on the SBDC program.

Contact: SBDC Program
Ministry of Revenue
P.O. Box 622
33 King Street West
Oshawa, Ontario
L1H 8H9
Zenith 8-2000 (Area Code 807 callers)
1-800-268-7121 (callers from all other areas)
(416) 433-6300 (local callers)

OR

Taxation Policy Branch
Ministry of Treasury and Economics
Parliament Buildings
Queen's Park
Toronto, Ontario
M7A 1Y7
(416) 965-6869

OR

Ontario Area Field Office
Small Business and Field Services Branch
Ministry of Industry and Trade
See Appendix D

SMALL BUSINESS INDUSTRY TECHNOLOGY PROGRAM (SBITP)

Eligibility: Small secondary manufacturers in Ontario engaged in new product or process development may qualify for financial assistance.

Description: The program assists small secondary manufacturers in advancing the engineering and technological skills of their staff in specific project areas. The project must

involve the development of new or improved products or processes not previously produced in Canada. In addition, the project must advance the engineering and technological skills of the firm. Commercial potential for the project must be high in terms of job creation and expanded markets.

Assistance is available for projects not exceeding $25,000 in total costs. Funding assistance covers up to 75 per cent of eligible costs, to a maximum of $15,000.

Eligible costs include:

- materials, parts and components
- use of specialized manufacturing facilities
- direct labour (excluding overhead expenses)
- testing related to materials and functions
- research and development facilities
- fees for outside consulting expertise in design engineering and other technological skills
- development of product specifications
- legally required certification testing.

Non-eligible costs include:

- capital expenditures for plant and equipment, including tooling and preproduction costs
- general overhead and administration, including salaries of management not directly used in the project
- packaging, industrial design, graphics and sales literature
- production engineering
- computer software
- travel costs, living expenses, phone calls, or other business and personal expenses.

The general terms and conditions of the agreement between the applicant and the government are stipulated in a contract. The applicant must have facilities and additional resources to manufacture the resulting product or process. The project must be completed within one year from the date of approval and must be marketable within 12 months from completion.

Contacts: Ontario Area Field Offices
Small Business and Field Services Branch
Ministry of Industry and Trade
See Appendix D

THE TECHNOLOGICAL ASSESSMENT REBATE PROGRAM (TAP)

Eligibility: Canadian-owned, small manufacturing enterprises located in Ontario that are interested in conducting planning and assessment studies may seek assistance from the Ministry of Industry and Trade.

Description: TAP provides financial assistance of up to $3,600 for preliminary assessment and planning studies for manufacturing projects. The applicant is required to pay the initial $400 of project costs, and the Ontario Government will reimburse 90 per cent of all eligible costs incurred, up to $3,600.

Eligible costs include:

- consulting services of research professionals such as scientists, engineers and technologists from the Ontario Research Foundation (ORF) or from a contract research agency
- transportation costs for the applicant to make one trip to the ORF for initial assessment and referral services, plus any reasonable travel expenses incurred by the consultant.

Non-eligible costs include:

- routine laboratory testing and analysis equipment and facility charges
- legal fees
- consulting services in excess of $4,000.

The applicant must provide a project proposal that describes the nature of the technical assignment, the commercial benefits of the project in terms of the Ontario work force, market expansion for Ontario products or conservation of non-renewable natural resources. The product promotional plan and the finance capital required for commercial exploitation within a two-year period must also be provided.

The applicant must also provide assurances of managerial capability in finance, production and marketing.

Contact: Ontario Area Field Offices
Small Business and Field Services Branch
Ministry of Industry and Trade
See Appendix D

UPGRADING ELECTRICAL POWER TRANSMISSION FACILITIES

Eligibility: Any Ontario industry interested in converting plant systems utilizing hydrocarbons to electricity may apply to the Board of Industrial Leadership and Development (BILD) for funding assistance for the upgrading of transmission facilities.

Description: The program encourages the use of electricity as a substitute for fossil fuels in industry and stimulates local employment and growth. BILD funds a substantial portion of the costs for upgrading electrical transmission facilities to an industrial plant. The BILD funding covers only a portion of the costs; the remainder must be met by Ontario Hydro and the participating company.

Contact: Senior Policy Advisor
Electric Power Section
Conventional Energy Group
Ministry of Energy
11th Floor
56 Wellesley Street West
Toronto, Ontario
M7A 2B7
(416) 965-8073

WOOD TECHNOLOGY PROGRAM

Eligibility: Enterprises engaged in the development and demonstration of wood-energy technology are eligible for funding assistance.

Description: The Wood Technology Program develops and promotes new technology for the forest industry and maximizes the efficiency of wood use, especially in the areas of forest by-products and under-utilized species. Funding assistance is provided through contractual arrangements and incentive grants for projects that relate to the following areas:

- wood-energy demonstration programs
- wood-product development
- sawmilling techniques
- reconstituted-board technology development
- handling of wood fibre and mill residues for energy users.

Contact: Forest Resources Group
Ministry of Natural Resources
Whitney Block
Queen's Park
Toronto, Ontario
M7A 1W3
(416) 965-2731

FEDERAL/ONTARIO FINANCIAL INCENTIVES

CANADA/ONTARIO CONSERVATION AND RENEWABLE ENERGY DEMONSTRATION PROGRAM (ENERDEMO)

Eligibility: Industry, consultants, associations, municipalities, colleges, universities, voluntary non-profit institutions and business enterprises interested in developing proposals for conservation and renewable-energy development and demonstration projects are eligible for shared-cost support.

Description: The program is a joint effort by the Governments of Canada and Ontario. The program is administered by the Ontario Ministry of Energy and managed jointly with Energy, Mines and Resources Canada through a management committee. The program was initiated to stimulate faster development and commercial exploitation of innovative conservation and renewable-energy technologies. In addition, the program is directed at a) fostering broad public awareness and acceptance of renewable energy and conservation technology and b) generating employment in new or existing industries.

The governments share a portion of both the direct and indirect costs associated with the development of a demonstration project. Direct expenditures eligible for funding include those associated with the design, construction and operation of the demonstration project. Costs for the development and implementation of an information program are also shared. The degree of funding for a particular project is determined by the management committee.

Projects are accepted for funding on the basis of their potential for conserving energy or developing renewable-energy technologies for a wide variety of applications. Project eligibility is determined by these criteria:

- short and/or long-term energy impact
- technical soundness
- uniqueness
- cost effectiveness and/or commercial viability
- the applicant's ability to design, build and manage the demonstration project
- potential for widespread public acceptance and exploitation
- private-sector investment and development participation
- technology transfer throughout the market
- potential contribution of the technology to Canadian energy, industrial, trade, regional and environmental objectives.

The program has a total budget of $58 million for 1979-84 that is shared equally by both governments. Intellectual property, including patents, designs and licenses will be retained by the applicant. The Crown will retain copyright of project reports.

Contact: Senior Executive Officer
Canada/Ontario Conservation and Renewable Energy Demonstration Program
Ministry of Energy
56 Wellesley Street West
Toronto, Ontario
M7A 2B7
(416) 965-5172

For industrial conservation and renewable energy demonstration project funding information, contact:

Energy Projects Group
Ministry of Industry and Trade
Hearst Block
Queen's Park
Toronto, Ontario
M7A 2E4
(416) 965-4356

OR

Ontario Area Field Office
Small Business and Field Services Branch
Ministry of Industry and Trade
See Appendix D

COMMERCIAL/INDUSTRIAL SOLAR DEMONSTRATION PROGRAM FOR ONTARIO

Eligibility: Corporations, municipalities and registered non-profit and religious organizations that own and operate commercial or industrial buildings or processes may qualify for assistance.

Description: The program is an integral part of the Ontario Government's five-year, $50-million Solar Energy Program. The program is designed to encourage the market development and widespread usage of solar energy by the private sector. The program has been in operation since 1981. During its second year, the federal government joined Ontario with funding assistance provided through Energy, Mines and Resources Canada.

To establish a market for solar equipment in Ontario, cost-sharing assistance is being provided to owners of industrial and commercial buildings. This support will assist with the costs associated with designing, supplying, and installing solar systems. These systems must utilize factory-assembled solar collectors manufactured in Canada and approved for use under the federal government's Purchase and Use of Solar Heating Program (PUSH).

Each year, proposals are solicited from commercial and industrial companies, municipalities and registered charitable and religious organizations. The proposals are evaluated to determine conformity with specific eligibility criteria. Each year, the criteria are subject to assessment. All costs pertaining to the design, purchase, installation and commissioning of the solar system are eligible for funding, including any required modifications to provide for the interface between the solar system and the building operation or process to which it is applied.

Information collected during the design, construction and commissioning phases of each project is disseminated throughout the private sector by the Ministry of Energy to promote broader commercialization of the technology.

Contact: Information Services
Ministry of Energy
62 Wellesley Street West
Toronto, Ontario
M7A 2B7
(416) 965-3246

NORTHERN ONTARIO RURAL DEVELOPMENT AGREEMENT (NORDA)

Eligibility: Economic development projects in rural Northern Ontario that are sponsored by individuals, groups, corporations or co-operatives are eligible for funding assistance.

Description: NORDA is an economic development agreement for rural Northern Ontario and is a subsidiary of the Canada-Ontario General Development Agreement. The agreement is directed at sustaining, expanding and diversifying the economic bases of rural Northern Ontario. NORDA encourages the creation of new or expanded economic activities that utilize local resources and provide employment opportunities to local residents.

Three NORDA programs may be of interest to those involved in energy-related projects:

Natural Resources (Funding - $4 million)
Small-scale projects intended to expand the utilization of the natural resource base in rural areas are encouraged through assistance for pre-investment studies. Rural landowners are encouraged to improve or establish woodlots. Funding is also provided to complete the geoscientific data base in specific areas of high mineral potential.

Rural Employment Incentives (Funding - $2.5 million)
NORDA assists the development of small-scale rural industry and selected commercial activities by providing support for manufacturing and processing enterprises, marketing facilities, related repair facilities and other strategic commercial undertakings.

Rural Industrial Infrastructure Support
(Funding - $2.5 million)
NORDA assists in removing specific physical constraints to the development of identified small-scale private-sector projects. Assistance is available for mapping, water and power supply, waste disposal, site access and other services.

Project funding is provided jointly by the Government of Canada and the Province of Ontario through the federal departments of Regional Economic Expansion and Indian and Northern Affairs and the Ontario ministries of Northern Affairs and Agriculture and Food. This agreement is scheduled to expire on March 31, 1984.

Contact: Application forms and program guidelines may be obtained by writing to:

NORDA
Ministry of Northern Affairs
421 Bay Street
Suite 301
Sault Ste. Marie, Ontario
P6A 1X3

PRODUCT DEVELOPMENT MANAGEMENT PROGRAM (PDMP)

Eligibility: Small secondary manufacturers in Ontario engaged in product development are eligible for financial assistance from the Ministry of Industry and Trade.

Description: This program is co-sponsored by the Ministry of Industry and Trade and the Design Canada division of the federal Department of Industry, Trade and Commerce. It is designed for projects up to a maximum of $25,000. Financial assistance is provided for up 75 per cent of all eligible costs, to a maximum of $20,000.

Since projects supported by this program involve a degree of risk, applicants must be sure that their own contributions will not create financial difficulty for them.

Eligible costs include:

- fees for an outside qualified industrial designer, who may also do preliminary market studies to establish the optimum design criteria
- direct labour (excluding overhead expenses)
- materials and labour for building models and prototypes, to a maximum of 25 per cent of overall project costs
- development of product specifications
- testing of materials and functions of project prototype
- packaging and graphic design for the product.

Non-eligible costs include:

- capital expenditures on plant and equipment, including tooling and setup costs
- legally required certification testing
- general overhead and administration, including salaries of management not directly used in the project
- production engineering
- direct and indirect production costs
- travel costs, living expenses, phone calls, or other business and personal expenses
- any costs incurred prior to Ministry approval.

The applicant must provide the facilities and additional resources to manufacture and market the resulting product. The project must be completed within 12 months from the date of project approval and must be marketable within a further 12 months from project completion. The Ministry may audit the project at any time after approval and prior to making any payments.

Contact: Ontario Area Field Office
Small Business and Field Services Branch
Ministry of Industry and Trade
See Appendix D

INFORMATION SERVICES AND TECHNICAL ASSISTANCE

FEDERAL SERVICES AND PROGRAMS

BUSINESS OPPORTUNITIES SOURCING SYSTEM (BOSS)

Eligibility: All Canadian business may use the services provided by the Business Opportunities Sourcing System (BOSS).

Description: The Department of Industry, Trade and Commerce (ITC), together with the provincial industry ministries and departments, have developed an information system that permits straightforward identification of market opportunities and faster sales for Canadian producers. The BOSS is an authoritative data base that contains information on Canadian companies, their products and their markets. The BOSS takes information from Canada's manufacturing and international trading companies and incorporates it into a system that quickly identifies Canadian suppliers for international and domestic markets.

Information is transferred onto microfiche and distributed to purchasing departments of private industry, Chambers of Commerce and Boards of Trade. Canada's international trade offices, ITC regional offices and business information centres and provincial departments of industry across Canada also receive the information. More than 13,000 Canadian companies have provided data for the system. Additional companies are added on a periodic basis and firms currently on file are able to introduce new data to the system.

Company information is gathered through the completion of a questionnaire. The system also works to the advantage of suppliers. Potential users of their products can be quickly identified.

The BOSS is used to locate appropriate representation for trade missions and trade fairs, both in Canada and abroad.

Contact: Manager
Business Information Centre
Department of Industry, Trade and Commerce
1 First Canadian Place
Suite 4840
P.O. Box 98
Toronto, Ontario
M5X 1B1
(416) 369-4941
Zenith: 0-3200

BUSINESS STATISTICS

Eligibility: All Canadian enterprises may use Statistics Canada services.

Description: Statistics Canada provides businesses with a comprehensive selection of statistical information ranging from national aggregates to specific topics. Data is published monthly, quarterly and annually, depending on the topic. The Statistics Canada Catalogue lists and describes all publications available.

Statistics Canada will assist businesses with a wide variety of energy information needs and statistical problems.

See Appendix G for a complete list of all energy-related publications.

Contact:
Energy and Minerals Section
Statistics Canada
Jean Talon Building, 11A2
Holland and Scott Streets
Tunney's Pasture
Ottawa, Ontario
K1A 0T6
(613) 996-3139

OR

Regional Office
Statistics Canada
25 St. Clair Avenue East
Toronto, Ontario
M4T 1M4
(416) 966-6586

CANADA CENTRE FOR REMOTE SENSING

Eligibility: Enterprises, government departments and universities, involved in many facets of natural resource management and exploration, may use the services provided by the Canada Centre for Remote Sensing.

Description: The Centre is the focal point of a national remote-sensing program involving federal and provincial governments, industry and universities. The Centre develops methods and instruments to collect, disseminate and analyse land and ocean observation data obtained from aircraft and satellites.

The Centre operates a fleet of four research and development remote-sensing aircraft.

Data related to the following areas may be of interest to the energy sector:

- sensor developments
- analysis systems
- remote-sensing surveys
- applications development.

Contact: Canada Centre For Remote Sensing
Energy, Mines and Resources Canada
2464 Sheffield Road
Ottawa, Ontario
K1A 0Y7
(613) 933-0121
Telex: 053-3777

CANADIAN COMMERCIAL CORPORATION (CCC)

Eligibility: Energy-related enterprises engaged in overseas market development may seek assistance from the Canadian Commercial Corporation (CCC).

Description: The CCC was established in 1946 by the federal government to assist in the development of trade between Canada and other countries. The Corporation links the requirements of foreign governments and international agencies with the supply capabilities of Canadian producers of goods and services.

In addition, the CCC serves as a prime contractor in capital-projects exports when a government-to-government arrangement is preferred by a foreign buyer and a Canadian exporter believes it will improve its chances for sale. The Corporation alerts Canadian suppliers to bid for foreign market opportunities. It develops government-to-government contracts and commits to deliver a product, service or project package to a foreign customer.

Contact: Canadian Commercial Corporation
112 Kent Street
17th Floor
Place de Ville, Tower B
Ottawa, Ontario
K1A 1E9
(613) 996-0034

CANADIAN ENERGY DATA BASES

Eligibility: Industry, consultants, individuals, municipalities, universities, provincial government ministries and federal government departments may access the Canadian Energy Data Base network.

Description: The Canadian Energy Data Bases have been in operation since 1979. They were developed by Energy, Mines and Resources Canada in conjunction with many federal and provincial agencies. The data bases are an inventory of energy-development and demonstration projects, programs and events in Canada. They are available on a full text-retrieval computer system. The inventory is composed of three parts:

- The Energy Projects (ENG) data base includes a description of the main features of the project. Information such as project location, contact person, management structure, funding details and keywords are included in the data base. In addition, the data base contains: a) information on projects from the federal Office of Energy Research and Development (OERD); b) the federal/provincial conservation and renewable-energy demonstration projects; and c) federal grants and private, provincial and international energy-agency projects.
- The Energy Calendar of Events (ENC) data base contains information on energy conferences, seminars and other related events.
- The Energy Programs (ENP) data base provides descriptions and contacts for federal and provincial government programs in energy and energy-related areas.

The entire data base network can be accessed from every major city in Canada and the United States. Energy program and project information can be retrieved through QL Systems Limited. Users pay only for searching and updating the data bases.

Contact: QL Systems Limited
400-36 King Street East
Toronto, Ontario
M5C 1E5
(416) 862-7656

OR

QL Systems Limited
Room 1018, Tower D
Place de Ville
112 Kent Street
Ottawa, Ontario
K1P 5P2
(613) 238-3499

COMPUTER-AIDED BUILDING ENERGY SYSTEMS ANALYSIS (ESA)

Eligibility: The Energy Systems Analysis (ESA) series of energy-conservation simulation programs is available to Canadian users on a royalty-free basis.

Description: The computer programs simulate building operation and determine how energy supplied to buildings is used and frequently wasted. The ESA series is used to evaluate building design by estimating energy consumption and life-cycle costs. It is not used to design building systems, but rather to evaluate their energy performance. Through multiple trials with the ESA series, the designer is able to compare alternatives and arrive at an optimal energy-conserving design for each building project.

The various ESA programs permit the user to evaluate building parameters, air-side system types, various control temperatures, airflow quantities, operating schedules, heat-recovery or economizer cycles, various equipment types and accessory combinations, competing energy sources, alternate utility rates and the impact of various economic factors on total owning and operating costs. These are the programs:

- **Energy Requirements Estimate (ERE)** calculates hour-by-hour thermal and electrical loads for a building (or building section), and simulates the operation of the air-distribution system in meeting these loads.
- **Total Coincident Requirement (TCR)** adds up the hour-by-hour loads from multiple ERE runs for various buildings or sections to find total system loads and differentials.
- **Equipment Energy Consumption (EEC)** simulates the operation of the various pieces of equipment as they respond to loads imposed by the building's air-side system. It determines monthly and annual energy consumption for various systems being evaluated.
- **Monthly Utility Costs (MUC)** calculates the monthly and annual energy costs for each system, using the local utility rate schedules.
- **Economic Comparison of Systems (ECS)** combines typical-year energy costs and other annual operating costs with initial investment and the associated cost factors to find the total owning and operating costs of each system year by year for any period up to 30 years.
- **Solar Table Generating Program (SLM)** allows the user to generate solar-heat gain tables for use as input to the ERE program. Items considered include location, ground reflectivity, building-face direction (to within one degree), glass characteristics and lagging.
- **Dump or Modification of ERE or TCR Output Tape (ERERD)** allows a user to read an ERE (or TCR) output file and then either print out hourly loads for specified periods or modify loads in specified ways.
- **Solar Table Merging Program (SLM)** allows a user to select heat-gain tables for specific directions from different output files.

The ESA series of computer programs is maintained at

the service bureau, Datacrown Incorporated, and is available from PolyCom Systems Limited of Toronto.

Contact: Computer accounts can be obtained by contacting:

The Marketing Manager
Datacrown Incorporated
1565 Carling Avenue
Ottawa, Ontario
K1Z 8R1
(613) 722-1002

PolyCom Systems Limited
1246 Yonge Street
Toronto, Ontario
M4T 1W5
(416) 960-0897

Subsequent to obtaining an account with Datacrown, a Canadian user (i.e. a company at least 51% Canadian owned) may obtain royalty-free access by writing to the address below, stating his Canadian status and giving his Datacrown account number.

Chief, Energy Conservation
Design and Construction Branch
Public Works Canada
Riverside Drive
Ottawa, Ontario
K1A 0M2

ENERGY-EFFICIENT HOME PROGRAM (DOUBLE E HOME PROGRAM)

Eligibility: Builders and homeowners interested in constructing or modifying homes to meet high energy-efficiency guidelines can participate in this program.

Description: The guidelines are intended to reduce heat loss and to encourage use of efficient equipment and appliances. They can be applied regardless of the type of heating fuel used in the home — i.e. oil, gas, electricity, coal, solar energy or wood.

Each participating electrical utility is responsible for administration of the program in its service area. There are differences in the delivery of the program across Canada. Interested persons should call their utility for information on local assistance and support programs.

Builders participating in the program will receive wide publicity for their display homes through a national public information network.

Contact: Manager
Customer Services Division
Canadian Electrical Association
Suite 580
One Westmount Square
Montreal, Quebec
H3Z 2P9
(514) 937-6187

OR

Contact your local utility.

ENER$AVE HOME ADVISORY SERVICE

Eligibility: The Ener$ave Home Advisory Service is available, free of charge, to all Canadian householders.

Description: The service offers a free computerized home-energy audit by having the householder complete and return a questionnaire. The response from Ener$ave will provide specific recommendations on practical and economical ways to save energy.

The service is offered through the Energy Conservation and Oil Substitution Branch (ECOS) of Energy, Mines and Resources Canada.

Contact: The Ener$ave Questionnaire may be obtained by writing to:
Ener$ave Home Advisory Service
P.O. Box 4510, Station E
Ottawa, Ontario
K1S 8B8

ENVIRONMENTAL ASSESSMENT AND REVIEW PROCESS (EARP)

Eligibility: Projects involving federal funds, lands or activities that could have an adverse effect on the environment must be assessed under EARP. This category includes energy-related projects in areas under federal responsibility, including offshore oil and gas development and pipeline construction.

Description: EARP is administered by the federal Environmental Assessment Review Office (FEARO) under the authority of Environment Canada. The process was established in December 1973 and amended by Cabinet on February 15, 1977 to ensure that environmental effects are assessed early in the planning of proposed projects or projects originating outside the federal government but involving a federal department through funding or property considerations.

EARP automatically applies when a project is conceived. The initiating department screens the proposal on the basis of a number of criteria, including environmental impact and the depth of public concern. The project is subjected to an Initial Environmental Evaluation (IEE). If this screening identifies adverse environmental impacts, the department refers the project to the Minister of the Environment for a formal review. After the review, recommendations are made to the federal Minister of the Environment who is responsible for releasing the report to the public.

Decisions about the proposed projects are then made by the responsible Cabinet Minister(s) in conjunction with the Minister of the Environment. For further information please write to:

Contacts:

Executive Chairman
Federal Environmental Assessment Review Office
Environment Canada
Fontaine Building
Hull, Quebec
K1A 0H3

OR

Office of Environmental Affairs
Energy, Mines and Resources Canada
580 Booth Street
Ottawa, Ontario
K1A 0E4

OR

Director General
Environmental Protection Branch
Canada Oil and Gas Lands Administration
Energy, Mines and Resources Canada
355 River Road, Tower B
Ottawa, Ontario
K1A 0E4

HEATLINE ENERGY ADVISORY SERVICE

Eligibility: The Heatline is a national information centre that offers advice on all aspects of home-energy management. Its services are available, toll free, to all Canadians.

Description: Heatline technical experts offer direct advice to householders on economical ways to save energy in their homes.

Free supporting publications are available on energy conservation, heating systems, renewable energy and oil substitution conservation programs offered by Energy, Mines and Resources Canada.

Heatline Energy Advisory Service is offered through the Energy Conservation and Oil Substitution Branch of Energy, Mines and Resources Canada.

Contact: Call the Heatline (toll-free) 1-800-267-9563. Ottawa-area residents can call 995-1801.

INDUSTRIAL ENERGY CONSERVATION PROGRAM

Eligibility: Sixteen task forces work in close liaison with industry associations to increase awareness and promote the implementation of energy-management programs in manufacturing companies throughout Canada. Individual firms are encouraged to participate in the program.

Description: The program is a multifaceted approach by industry and the federal government to work towards increasing the productivity of each unit of energy consumed.

The task forces, industry associations and individual firms are voluntarily committed to:

- setting targets for improvements in energy efficiency and regularly reporting on progress toward these goals
- increasing awareness of the need for, and benefits to be obtained from, aggressive energy-conservation programs at the national and company levels
- freely exchanging non-proprietory information and experiences among companies and the task forces
- co-ordinating the industrial energy conservation activities across sectors to provide a focal point for government/industry discussion.

Contact: Industrial Energy Conservation Program
Energy, Mines and Resources Canada
580 Booth Street
Ottawa, Ontario
K1A 0E4
(613) 995-9447

INVENTORS' ASSISTANCE PROGRAM

Eligibility: Enterprises, inventors, small businesses and entrepreneurs engaged in innovation and development of energy-related technology may seek technical, patent and marketing assistance from the program.

Description: The program is designed to provide inventors with a wide range of assistance and knowledge available from the Canadian Industrial Innovation Centre at the University of Waterloo. A preliminary assessment of an invention is provided for a fee of $100, payable on registration. It tests

the invention against established criteria. It determines whether further investment of time, money and effort, toward development of the invention, is worthwhile.

The Canadian Industrial Innovation Centre/Waterloo (CIIC/W) also offers the inventor, entrepreneur or enterprise a comprehensive package of services, including advice on patent application, technical design requirements, development work, prototype construction and testing, market analysis, market strategy and licensing.

The inventor's information is treated with strictest confidence, and the inventor retains all rights to his/her project. Receipt of the assessment report by the inventor ends the relationship, unless the individual requests additional assistance from the program.

Contact: Inventors' Assistance Program
Canadian Industrial Innovation Centre/Waterloo
156 Columbia Street West
Waterloo, Ontario
N2L 3L3
(519) 885-5870

LAND INVENTORY AND LAND USE MANAGEMENT

Eligibility: Private enterprises and all levels of government are eligible to use the Land Inventory and Land Use Management service.

Description: Land use and special land study reports produced through the co-operative efforts of the federal and provincial governments are available to government departments and private-sector firms involved in resource-development planning and environmental-impact assessments.

The Canada Land Data System (CLDS) contains physical, biological, social, and economic data on Canada's land resources.

An awareness and training program informs resource-planning and management agencies of the capabilities and application of the system.

A major objective of the program is to enable an increasing number of users to access the system through regional terminals.

Contact: Chief, Canada Land Data Systems Division
Lands Directorate
Environment Canada
Ottawa, Ontario
K1A 0E7
(819) 997-2510

MINING TECHNOLOGY INFORMATION DATA BASE (MINTEC)

Eligibility: The MINTEC data base is available to engineers, managers, executives, scientists, university professors, students, consultants and technicians who require information on mining technology suited to Canadian conditions.

Description: MINTEC is a computer-based file of world mining technology references in the form of abstracts. It is available to the public for on-line searching. The data base is administered by QL Systems Limited and can be accessed through remote computer terminals by subscribers through the Datapac Telecommunications network. MINTEC searches will also be conducted by QL Systems for non-subscribers.

MINTEC contains selected articles from approximately 100 world journals, plus conference papers, books and reports. Approximately 22,000 citations are kept on file. References are retrieved if the search words are contained in the title, abstract or keyword field. International publications with an emphasis on technology applicable to Canadian mining conditions are contained in the data base. Publications in English and French, as well as translations of foreign-language documents, are in the data base.

Contact: QL Systems Limited
400-36 King St. East
Toronto, Ontario
M5C 1E5
(416) 862-7656

OR

QL Systems Limited
Room 1018, Tower D
Place de Ville
112 Kent Street
Ottawa, Ontario
K1P 5P2
(613) 238-3499

NATURAL RESOURCES INFORMATION (NRI)

Eligibility: Energy-related enterprises involved in all facets of mineral, metal and fuel extraction and processing may access natural-resource information provided by Energy, Mines and Resources Canada (EMR).

Description: EMR provides up-to-date scientific and technological mining data, land maps, aeronautical charts, aerial photographs, satellite imagery and theme maps. In addition, EMR provides information on new geological findings and energy-conservation techniques.

Contact: Communications Branch
Energy, Mines and Resources Canada
580 Booth Street
Ottawa, Ontario
K1A 0E4
(613) 995-3065

NATIONAL GEOSCAN CENTRE

Eligibility: Companies and individuals carrying out mineral exploration, development or research may access the GEOSCAN data base.

Description: The Centre is responsible for the management of the GEOSCAN bibliographic data base that controls Canadian-produced or related geoscience documents. The data base was created in 1969 and currently contains 70,282 records. It is maintained through the contributions of participating federal and provincial geoscience agencies. Approximately 10 per cent to 15 per cent of the records are energy related. Records can be retrieved on the basis of author name, company name, keyword, subject category and province.

GEOSCAN can be accessed through the library at the Geological Survey of Canada. Searches are performed on a cost-recovery basis. Cost estimates for search topics are provided on request.

Contact: Head, National GEOSCAN Centre
Geological Survey of Canada
Energy, Mines and Resources Canada
601 Booth Street
Ottawa, Ontario
K1A 0E8
(613) 992-9550

Questions concerning the GEOSCAN search service and specific search requests should be directed to:

GEOSCAN Search Intermediary
Library - Room 350
Geological Survey of Canada
601 Booth Street
Ottawa, Canada
K1A 0E8
(613) 995-4142, 995-4163, 995-4151

NATIONAL MINERAL INVENTORY (NMI)

Eligibility: Companies carrying out mineral exploration and development may access the National Mineral Inventory files.

Description: The National Mineral Inventory (NMI) of the Mineral Policy Sector maintains records of known mineral deposits and occurrences (excluding petroleum and natural gas, but including coal) throughout Canada. Each record contains a brief summary of the history of the exploration, development, and production of the deposit. In addition, a geological description of each deposit is also contained on each record. A computerized index/data file (MINSYS) of Canadian mineral occurrences is maintained by NMI. Records can be obtained on a fixed-fee-per-file basis for individual files and on a cost-recovery basis for computer files.

Contact: Director
National Mineral Inventory
Energy, Mines and Resources Canada
580 Booth Street
Ottawa, Ontario
K1A 0E4
(613) 995-9466

NATIONAL RESEARCH COUNCIL OF CANADA (NRCC)

Eligibility: Canadian enterprises, universities, provincial and municipal governments and individuals may receive technical and/or financial assistance from the National Research Council of Canada (NRCC).

Description: NRCC is a research agency created by the federal government to conduct, assist and promote scientific and engineering research to enhance economic and social development in Canada. The Council maintains close liaison with industries, universities, and provincial governments and research agencies. The NRCC operates eleven laboratory divisions throughout Canada and the Canada Institute for Scientific and Technical Information (CISTI). The Council will undertake specific research at the request of industry. The Council also offers financial assistance to enterprises conducting research and development.

NRCC's Division of Energy Research and Development (DERD) is responsible for co-ordinating all federal research and development activities in renewable sources of energy, including solar, wind, unconventional hydraulic energy, biomass and peat. NRCC/DERD is also the lead agency for Canadian research into energy conservation in buildings, conversion and storage of energy, hydrogen systems, heat pumps and fusion. In addition, NRCC staff members undertake many scientific and engineering projects related to other areas of energy research and development.

Energy Inquiry Centre (EIC)
The Centre provides a focus at NRCC for general inquiries concerning renewable energy, energy technologies, and energy conservation. Operating within and utilizing the resources and services of the Energy Branch of the Canada Institute for Scientific and Technical Information (CISTI), the Centre provides reference and referral services in response to inquiries from individuals, industries, professional associations and other government departments.

Contacts: Energy Inquiry Centre
Canada Institute for Scientific and Technical Information
National Research Council of Canada
Montreal Road
Ottawa, Ontario
K1A 0S2
(613) 993-3861

OR

See Appendix B for NRCC contacts across Canada

TECHNICAL INFORMATION SERVICE (TIS)

Eligibility: The Technical Information Service is available to all Canadian manufacturing enterprises.

Description: TIS is administered by the National Research Council of Canada (NRCC). It offers Canadian manufacturing industries information on the most up-to-date technology required for industrial problem solving. This service includes assistance for solving technical problems, improving production operations, increasing productivity, developing new processes, products and markets, reducing costs and increasing profits.

The TIS Field Service staff makes in-plant contact with clients. The field service helps identify and solve problems through the development and implementation of enhanced technological capabilities.

The TIS serves industry through four interlocking programs:

- **Industrial Engineering Program.** Experts give on-site advice to industry covering a host of engineering problems.
- **Technical Inquiries Program.** This program provides answers to specific industrial problems.
- **Technological Development Program.** This is an information program that keeps industry informed about technological advances.
- **Science and Engineering Student Program (SESP).** Senior students conduct short-term in-plant projects for industry.

Small firms not capable of establishing their own research and development facilities can receive assistance through the Industrial Research Assistance Program (IRAP). The program pays the salaries of individuals working on approved projects conducted by research organizations in the public and private sectors on behalf of a business client. This program has been consolidated with the Industrial Research Assistance Program (IRAP).

Contact: Regional Head
Technical Information Service
National Research Council of Canada
Suite 910
789 Don Mills Road
Don Mills, Ontario
M3C 1T5
(416) 966-5845

TOPOGRAPHICAL SURVEY DIVISION

Eligibility: Engineers, exploration and development companies, conservationists, teachers, federal and provincial government departments and the general public may obtain topographical maps from Energy, Mines and Resources Canada (EMR).

Description: Topographical maps produced by the Topographical Survey Division fulfill a variety of needs within the private and public sectors. The Division concentrates on the two most important scales of topographical mapping: the 1:250,000 reconnaissance series and the 1:50,000 basic series. Work has started on the National Digital Topographical Data Base. The Division is constantly revising existing maps, as well as publishing new ones. In many areas of Canada, the maps of the 1:250,000 series offer the most accurate depiction of the terrain. Maps are produced in response to requests from both private and public resource agencies. Revision mapping is conducted in accordance with set cycles. These cycles take into account that surface features change at different rates, depending on the type of development activity occurring in a particular region. Approximately 70 per cent of Canadian territory is covered by the 1:50,000 series. The Division has a wide variety of information concerning mapping and aerial photographic services within EMR.

Contact: Director
Topographic Survey Division
Energy, Mines and Resources Canada
580 Booth Street
Ottawa, Ontario
K1A 0G1
(613) 995-4643

ONTARIO
SERVICES AND PROGRAMS

AGRICULTURAL ENERGY MANAGEMENT PROGRAM

Eligibility: The services of this program are available to Ontario farmers interested in improved energy management.

Description: The program is administered by the Agricultural Energy Centre of the Ontario Ministry of Agriculture and Food (OMAF). Objectives include:

- on-farm demonstrations of energy-management methods and techniques
- distribution of energy-management information and fact sheets to farmers through the local Ministry of Agriculture and Food offices, the media and farm meetings.

Specialists in the local offices can provide answers to questions concerning energy problems experienced by farmers. Details on the whey assistance program and the greenhouse retrofit program can be obtained from OMAF.

Contact: Inquiries can be made by phone, letter or a visit to any one of the 54 Ontario Ministry of Agriculture and Food offices. There is an office located in each county and district in Ontario. Please consult your telephone directory.

OR

Agricultural Energy Management Resource Centre
Ontario Ministry of Agriculture and Food
801 Bay Street
Toronto, Ontario
M7A 2B2
(416) 965-9519

BUILDERS' GUIDE TO ENERGY EFFICIENCY IN NEW HOUSING

Eligibility: The Builders' Guide to Energy Efficiency in New Housing is available to all Canadian builders and homeowners.

Description: The Builders' Guide to Energy Efficiency in New Housing is a jointly sponsored publication of the Housing and Urban Development Association of Canada (HUDAC) and the Ontario Ministry of Energy. The Guide is designed to give the Canadian builder practical information and guidance in the area of energy conservation in new housing. It offers useful suggestions for planning, designing and building more energy efficient homes. Recommendations contained in the Guide will produce attractive cost saving benefits for home buyers.

The guide provides information on energy efficient construction methods that are suitable for low-rise housing

such as single, semi-detached, row housing and three-storey, walk up buildings.

The Guide is organized into nine sections and includes information on topics such as air tightness, ventilation, moisture control, options for improving the building shell and space heating and cooling systems. In addition, the Guide contains useful information that will assist builders in marketing energy conservation features in new housing. The price per copy is $9.00 and all orders must be prepaid. For copies please write to:

Contact: Communications Department
HUDAC National Office
15 Toronto Street
10th Floor
Toronto, Ontario
M5C 2E3
(416) 364-4135

DOWNTOWN PROGRAMS

Eligibility: Owners, managers and tenants of downtown Toronto and Ottawa office buildings may join the voluntary Downtown Program.

Description: The five-point program encourages energy efficiency in commercial buildings by having each participating company:

- appoint a senior executive as co-ordinator
- set objectives for reducing energy with an immediate target of reducing lighting levels and a long-term goal of reducing energy consumption by 30 per cent
- reduce after-hours lighting
- participate in forums and workshops with Ministry of Energy and public utility personnel
- develop a reporting system.

Contact: Downtown Programs
Buildings Energy Conservation Section
Ministry of Energy
56 Wellesley Street West
10th Floor
Toronto, Ontario
M7A 2B7
(416) 965-3053

FINANCIAL FORECASTING FOR MANUFACTURERS

Eligibility: The Ministry of Industry and Trade offers financial forecasting services to manufacturers with annual sales between $250,000 and $5,000,000.

Description: A computer analysis of all financial interactions affecting the firm is offered. The implications of business plans can be measured. The analysis will provide information on:

- probable future return on investment
- sales and profit impact of expansion
- effects of developing and introducing new products
- effects of entering new markets
- cost-profit relationships
- marketing and financial alternatives.

In addition, assistance is offered in the preparation of financial reports, balance sheets and cashflow statements. These financial forecasts can be used to plan strategy, assess future profits and support loan applications for both private and public funding.

Contact: Ontario Area Field Office
Small Business and Field Services Branch
Ministry of Industry and Trade
See Appendix D

HEAT SAVE

Eligibility: Homeowners in designated Heat Save project communities can receive personal fuel-saving consultation while Heat Save Clinics are operating there.

Description: The objective of the program is to reduce energy consumption in the residential sector (existing owner-occupied houses) by encouraging retrofit activity by the owners. The Heat Save projects involve the operation of storefront clinics. Personal interviews with qualified staff are available to the homeowner for (a) discussing the heating efficiency of the home and (b) determining the least-expensive methods of reducing fuel bills. Experts can offer a wide variety of advice ranging from information on payback periods for insulation to the benefits of weatherstripping. The projects involve the use of aerial thermography as a diagnostic tool for the proper installation and performance of attic insulation and ventilation.

During 1983-84, Heat Save Clinics are planned for Hamilton, Timmins, Guelph, Vaughan, Kenora, Trenton, Oakville and Richmond Hill.

Contact: Information Services
Ministry of Energy
62 Wellesley Street West
Toronto, Ontario
M7A 2B7
(416) 965-3246

HOUSING RENOVATION AND ENERGY CONSERVATION UNIT (HREC)

Eligibility: Individuals, housing developers, builders, manufacturers, municipalities and government ministries involved in housing renovation and energy conservation may obtain information, technical advice and demonstration-project assistance from the unit.

Description: The unit has two objectives:

- to encourage the conservation and renovation of existing housing stock
- to maximize the opportunities that renovation activities provide for energy-conserving measures.

The unit is involved in the following areas:

- establishing liaison between the Ministry of Municipal Affairs and Housing and key groups involved in housing renovation and residential energy conservation
- developing policies and legislation to accelerate and promote residential conservation and rehabilitation
- assembling and distributing information on trends in the renovation field and providing information to the public through booklets, fact sheets, travelling exhibits and demonstrations
- developing training programs, conducting workshops and organizing major conferences for industrial and municipal officials.

The unit publishes a newsletter and technical bulletins to provide interested groups and individuals with information on technical and legislative developments in housing rehabilitation and energy conservation.

Contact: Housing Renovation and Energy Conservation Unit
Ministry of Municipal Affairs and Housing
101 Bloor Street West
Toronto, Ontario
M4W 3K7
(416) 965-4073

HYDROCARBON ENERGY RESOURCES INVENTORY PROGRAM

Eligibility: All resource-based industries interested in the development of coal, peat or oil shale can access data bases containing inventories of these resources in Ontario. The program was established under the Board of Industrial Leadership and Development (BILD). The data bases will become more comprehensive once assessments of lignite, peat and oil shale deposits in Ontario are completed.

Description: The objective is to assess the potential of these resources and to encourage private-sector development activities. Projects include inventories or assessments of each resource. In addition, technical and economic evaluations of the development potential of these resources will be conducted. New policies and regulations designed to stimulate the exploration and development of these resources will be drafted.

Contact:
Mineral Resources Group
Ministry of Natural Resources
Whitney Block
Queen's Park
Toronto, Ontario
M7A 1W3
(416) 965-4271

MANUFACTURING COST REDUCTION PROGRAM

Eligibility: Small manufacturers experiencing production problems may obtain assistance from this program.

Description: The program is designed to reduce high production costs and increase the productivity of small manufacturing firms in Ontario. The Ministry of Industry and Trade can provide the small firm with assistance in the following areas:

- design of facilities, including layout of buildings, machines and equipment, new materials and product-storage facilities
- selection of processes and assembly methods
- selection and design of tools and equipment
- product development
- design and/or improvement of planning and control systems for distribution of goods and services, production, inventory quality, plant maintenance and engineering
- development of cost systems such as budgeting control systems, cost analysis and standard cost systems
- design and installation of value-engineering and analysis systems
- development and installation of job-evaluation systems
- design and installation of data-processing systems
- organizational planning.

Contact:
Ontario Area Field Office
Small Business and Field Services Branch
Ministry of Industry and Trade
See Appendix D

MARKETING ONTARIO HYDRO EXPERTISE

Eligibility: Firms engaged in the development of energy technology and engineering consulting may apply to Ontario Hydro for technical assistance.

Description: Ontario Hydro offers a variety of technical expertise in a number of energy-related areas. Hydro will work in co-operation with the private sector to enhance and promote business activity through the application of in-house technical capabilities.

Contact: Please direct inquiries in writing to:
Vice-President, Marketing
Ontario Hydro
620 University Avenue U2 E6
Toronto, Ontario
M5G 1X6

ONTARIO INTERNATIONAL CORPORATION (OIC)

Eligibility: The Ontario International Corporation develops information on international capital and infrastructure projects. It also promotes the transfer of expertise from both the private and the public sectors in Ontario to international markets. Clients are usually consulting firms, ministries or agencies of the Ontario Government, or a combination thereof.

Description: The OIC was established in 1980 by the Ontario Government. Its principal objective is to stimulate individual or group interests in international project opportunities. The Corporation is a primary marketing agency that acts as a co-ordinator of public and private expertise for international capital projects.

The Corporation has these major objectives:

- to market expertise from government ministries and agencies to the international sector
- to assist with the co-ordination of consulting and technical expertise from the private sector
- to act as a government-to-government contact in foreign markets for Ontario consortia interested in international business prospects or joint ventures.

OIC is not a funding source, does not compete with the private sector and does not engage in contractual relationships with foreign clients. The Corporation uses a single-agency approach to co-ordinate the activities of Ontario enterprises and of international clients. Such an approach allows for both parties to conduct their transactions in an efficient manner. The Corporation will provide contacts, determine the feasibility of projects, and

conduct preliminary project reviews. OIC also introduces Ontario entrepreneurs to international clients.

Contact: Ontario International Corporation
Hearst Block
900 Bay Street
Toronto, Ontario
M7A 2E4
(416) 965-3013
Telex: 062-19786

ONTARIO RESEARCH FOUNDATION (ORF)

Eligibility: Small and medium-sized companies without their own research and development facilities may seek scientific and technological support from the ORF. Large companies may complement their in-house research capability by using ORF expertise and facilities.

Description: The ORF is an independent and non-profit contract research organization. Energy-related research covers a wide range of activities including:

- products and processes
- alternate fuels
- materials
- solar and other renewable-energy technologies
- energy-efficient building systems.

On behalf of a major oil company, the ORF developed a multi-fuel, energy-efficient industrial burner. This design is licensed worldwide and is being produced in sizes ranging from 10 million to 200 million Btu/hr.

In co-operation with a multinational energy company, the ORF developed an electric/oil hybrid heating system for domestic use. These furnaces are successfully marketed throughout Canada.

In the area of alternate fuels, the ORF has developed a program on the combustion of coal/oil slurries and of coal/oil/water emulsions. One of these major cost-sharing programs was funded by the Ontario Ministry of Energy, Energy, Mines and Resources Canada, Ontario Hydro and several private-sector firms. The ORF has also examined methods of improving the performance of engines operating on gasoline/methanol blends. In the area of biomass, the ORF, in co-operation with Environment Canada, has conducted a study of the technical and economic aspects of two wood-gasification concepts used for methanol production. On behalf of the Ministry of Energy, the ORF is involved in an investigation of peat as an alternative energy source.

Several research and development projects were undertaken to develop high-efficiency insulation materials. For

a private-sector client, the ORF developed flame-retardant cellulose-fibre insulation. Other energy-related research and development projects include a process to manufacture cement at lower-than-usual temperature and a novel extractive metallurgical process for domestic low-grade chromium ores. Both projects result in substantial energy savings over conventional methods.

The ORF operates a commercial solar-collector test facility and has tested more than 40 collectors according to American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE) standards. The ORF, in co-operation with the Ontario Ministry of Energy and the National Research Council of Canada (NRCC), has developed monitoring requirements for solar-demonstration projects.

The ORF is active in the field of building energy conservation technologies. On behalf of the Government of Ontario, major projects have been undertaken in developing practical solutions for energy conservation in existing greenhouses. A new-generation, high-efficiency greenhouse system has been developed for Agriculture Canada. On behalf of Energy, Mines and Resources Canada, ORF is developing innovative energy-conservation strategies for high-rise commercial and residential buildings. Studies in heat-pump technology have also been undertaken. A major ORF test facility has been established to facilitate research and development work in heat-pump systems and air-to-air heat exchangers.

The ORF offers a free technical-information service sponsored by the National Research Council of Canada (NRCC). The service provides technical literature, advice on federal and provincial industrial-incentive programs, in-plant problem-solving assistance and scientific, technical and business contacts.

Contact: Manager, Energy Group
Ontario Research Foundation
Sheridan Park Research Community
Mississauga, Ontario
L5X 1B3
(416) 822-4111
Telex: 06-982311

SMALL BUSINESS COUNSELLING SERVICE BY UNIVERSITIES

Eligibility: Canadian-owned small businesses requiring consulting services may receive assistance from the program.

Description: Services are available to small firms that normally cannot afford a private consultant. This program provides direct assistance through 12 Ontario universities on a year-round basis. Senior students in Business, Commerce and MBA programs will work with firms experiencing

accounting, marketing, finance, production, inventory control, personnel or organizational problems.

University faculty co-ordinators supervise the consulting service. University service costs are covered by a minimal daily fee.

Contact: Ontario Area Field Office
Small Business and Field Services Branch
Ministry of Industry and Trade
See Appendix D
For a list of participating universities see Appendix E.

SMALL BUSINESS MANAGEMENT DEVELOPMENT PROGRAM (SBMDP)

Eligibility: Canadian-owned small businesses requiring management upgrading may seek assistance from this program.

Description: The purpose of the program is to develop management skills in the small business sector. The Ministry of Industry and Trade will provide smaller communities throughout Ontario with small business consulting teams to work with 25 locally-owned and managed businesses. The consultants will provide free advice and information.

The local co-ordinating committee, established by the Chamber of Commerce or other business associations in the community, will organize a public meeting for business owners to learn about the program.

The consulting team will work with small businesses on an individual basis. The team will teach management skills, analyse the business operation, recommend changes and produce plans.

A follow-up procedure is conducted three months after the initial consulting service is provided. Further recommendations may be suggested based on the results of the evaluation.

Contact: Ontario Area Field Office
Small Business and Field Services Branch
Ministry of Industry and Trade
See Appendix D

THE JOINT MUNICIPAL/PROVINCIAL ENERGY CONSERVATION PROGRAM

Eligibility: All Ontario municipalities are eligible for energy-conservation technical advice and assistance under the program.

Description: In 1979, a joint provincial-municipal advisory committee on energy conservation was established to encourage municipalities to create voluntary energy programs and to offer

advice and assistance in areas such as buildings, transportation, street lighting, waste-disposal systems, building codes, property standards, by-laws and community planning.

The committee recommended that municipalities establish a special energy-management committee and appoint an energy co-ordinator to develop an in-house energy-conservation program. Initially the local energy-management committee collects basic data on energy use, reviews building operations and maintenance procedures, identifies specific areas for energy savings and sets energy-conservation goals.

The energy co-ordinator, or committee, also examines building codes, property standards, urban transportation systems and land development plans to identify energy savings.

The Ministry of Energy provides a grant to the Association of Municipalities of Ontario to help municipalities develop and implement their programs and to facilitate the transfer of energy-related technology and information.

The Ontario Government is involved in many projects that seek to improve energy-use efficiency in municipalities. These projects include:

- energy-efficient street-lighting units
- recovery of heat from municipal waste
- solar space and water heating in schools, houses, community swimming pools, hospitals and greenhouses.

Direct loans or grants are not issued to municipalities under this program. Funds are normally directed to particular energy-conservation and renewable-energy demonstration projects. Projects are tested and the resulting information is disseminated to municipalities.

Contact:

The Joint Municipal/Provincial Energy Conservation Program
Energy Conservation Group
Ministry of Energy
56 Wellesley Street West
Toronto, Ontario
M7A 2B7
(416) 965-5743

OR

Program Co-ordinator
The Joint Municipal/Provincial Energy Conservation Program
Association of Municipalities of Ontario
100 University Avenue
Suite 902
Toronto, Ontario
M5J 1V6
(416) 593-1441

THE MINERAL RESOURCES GROUP — MINISTRY OF NATURAL RESOURCES

Eligibility: Individuals, exploration and development companies, mining firms, universities, research organizations and government ministries and departments may receive assistance from the Ministry of Natural Resources for a wide range of geological information requirements.

Description: **The Ontario Geological Survey (OGS)**
The OGS provides information on the geology and mineral resources of Ontario. It offers assistance to individuals and companies engaged in exploration activities, provides data for land-use planning and assists in the development of non-renewable-resource policies. Geoscientists within the OGS are organized into the Precambrian Geology Section — for studies of rocks more than 600 million years old; the Engineering and Terrain Geology Section — for studies of rocks less than 600 million years old; the Mineral Deposits Section — for studies of Ontario's economic mineral occurrences; the Geophysics/Geochemistry Section — for studies of the physical and chemical properties of the Earth's crust in Ontario. The OGS also provides educational programs, collects data, publishes reports and produces maps.

Ontario universities are eligible for grant funding to carry out geoscience research under the Geoscience Research Grant Program.

The Geoscience Information Office organizes and conducts classes in geology and mineral exploration, answers geological inquiries from the public and prepares general publications on the geology of Ontario.

The Geoscience Laboratories provide scientific support to the private sector and government. The Analytical Laboratory conducts research on analytical techniques and develops new or improved methods of analysis. These methods range from the determination of major constituents of rocks and ores to the geochemical analysis of soil, rock, water and vegetation samples for trace elements. The laboratory also supports projects sponsored by CANMET. The Mineral Science Laboratory conducts research and develops methods in mineralogy, petrology and physical testing. It offers consulting services for mineral projects undertaken by mining companies.

The Geoscience Data Centre collects, researches, and computer processes geoscience data on mineral deposits in Ontario. In addition, the Centre indexes publications prepared by the OGS and reports received under the Ontario Mineral Exploration Program (OMEP). The information is stored in the computerized Ontario Index to Geoscience Data which contains more than 14,500 reports

and maps. One of Canada's largest collections of published geological information is available for reference in the Mines Library.

Programs managed by the OGS on behalf of the Board of Industrial Leadership and Development (BILD) include:

- development of drill-core storage libraries where drill core may be examined, allowing prospectors and mineral-exploration companies to re-evaluate previously drilled areas, thus saving time and money
- the **Exploration Technology Development Fund,** established in 1981, to promote joint ventures with Ontario companies in research and development. By the end of 1982, 32 projects received $1.5 million to improve geophysical and geochemical techniques
- the **Hydrocarbon Energy Resources Inventory Program** to obtain detailed data by drilling and conducting special studies on three potential oil-shale units, peat and lignite deposits as potential fuels. Oil and natural gas resources are also being assessed.

The Mineral Resources Branch

The Mineral Resources Branch works to ensure the orderly development and optimum use of Ontario's resources. The branch conducts economic studies of metal and mineral markets, produces in-depth mineral-commodity studies, analyses the effectiveness of public policies for resource development, maintains an inventory of the province's commercially extractable reserves of minerals and provides the government with information necessary to create mineral policies. In its statutory role, the Branch administers the Pits and Quarries Control Act and parts of the Mining Act and the Petroleum Resources Act. The Branch prepares and publishes statistical reports on Ontario's mining industry. The Branch also acts as the channel through which the National Energy Program (NEP) of the federal government and its incentive payments to the oil-and-gas sector are administered throughout the province. It also advises the Ontario Energy Board on all oil and natural gas matters including the gas-storage industry.

Programs managed by the Branch on behalf of the Board of Industrial Leadership and Development (BILD) include:

- **GOMILL** — custom gold-milling facilities to provide bulk sampling and milling services to Northern Ontario gold deposits. These mills provide milling services for small gold-deposit owners who cannot afford their own mills.
- the **Small Rural Mineral Development Program** provides companies that mine industrial minerals up to 25 per cent of approved capital costs to develop new mines or increase existing mine productivity.

Contact: Please write to:

Director
Ontario Geological Survey
Ministry of Natural Resources
Room 1121
77 Grenville Street
Toronto, Ontario
M5S 1B3

OR

Director
Mineral Resources Branch
Ministry of Natural Resources
99 Wellesley Street West
Toronto, Ontario
M7A 1W3

TRANSPORTATION ENERGY MANAGEMENT PROGRAM (TEMP)

Eligibility: TEMP will provide advice and assistance to individuals, municipalities and enterprises interested in improving motor-vehicle technology and transportation energy efficiency.

Description: This is a joint program involving the Ministry of Transportation and Communications (MTC) and the Ministry of Energy (MENY). The goal is to produce a 10-per-cent energy saving in the Ontario transportation sector by 1985. Research and development sponsored by the program focuses on energy conservation in transportation. The program also assists with the marketing of several transportation energy-saving concepts and services.

Several sub-programs exist under TEMP. Their objectives are:

- to improve the efficiency of transportation technology and operations
- to use more efficient methods of transportation
- to develop and promote alternatives to oil
- to reduce travel requirements.

The various sub-programs are:

Ridesharing promotes car and van pooling throughout Ontario. The program is directed at large employers who will purchase and operate vans and establish car-pool programs for their employees. It is marketed to large companies through presentations and literature.

Trucksave improves the energy efficiency of the Ontario trucking industry. The program was initiated by the Trucksave Advisory Committee. The committee is comprised of representatives from various companies and

groups within the transportation industry and the Ontario Government. A driver-training program has been developed. The energy-saving potential of truck anti-idling devices has been assessed through a series of private-sector fleet tests. A series of booklets called "Spec'ing a Fuel Efficient Truck" is available and a maintenance-training package is planned. Truck Save is marketed through trucking organizations, special seminars, conferences, mail-outs and a quarterly newsletter.

DriveSave is designed to encourage drivers throughout Ontario to be energy efficient. Information is distributed through fleet associations, driver-education associations, motorist associations and existing government information networks. The DriveSave Advisory Committee is comprised of industry and government representatives. Activities of the program include:

- the development of an energy-efficient training program for drivers of cars and light trucks
- the development of a media information program that encourages buyers to purchase energy-efficient cars. Drivers are also made aware of efficient driving and maintenance habits.

Alternative Fuels Promotion encourages the use of alternative fuels as substitutes for petroleum-based energy. The program has promoted propane as a transportation fuel.

Teleconferencing is aimed at replacing travel with communications. Initiatives include the promotion and demonstration of teleconferencing in government ministries and private-sector corporations.

Contact:

Co-ordinator
Transportation Energy Management Program
Energy Conservation Group
Ministry of Energy
56 Wellesley Street
Toronto, Ontario
M7A 2B7
(416) 965-9297

FEDERAL/ONTARIO SERVICES AND PROGRAMS

ENERGY BUS PROGRAM

Eligibility: Industrial enterprises interested in improving the efficiency of heating systems and production processes that utilize electricity, natural gas, oil, coal or water may use the services provided by the program. To qualify, applicants must have energy expenditures of at least $10,000 per year.

Description: The Energy Bus is a mobile industrial and commercial energy-waste-detection system. It is equipped with two mini-computers, energy-measuring instruments, demonstration equipment and video units. The vehicle is staffed by a team of professional engineers and highly trained technicians. The audit team will provide an on-the-spot energy-consumption analysis. Inefficient energy usages will be determined by:

- analysing consumption and cost trends and determining priorities for potential savings
- providing an objective critique of plant energy usage
- increasing management and staff awareness of energy efficiency.

The energy audit covers several areas:

Electrical Power Demand Economics
A computer program analyses the monthly meter readings. Recommendations are offered for improving process efficiency and reducing electrical loads.

Space Conditioning
Two computer programs are used to analyse the efficiency of space-conditioning systems. The insulation-economics program analyses heat losses throughout a building. Recommendations concerning insulation, windows, ceilings and scheduled temperature setbacks are developed from the analysis.

The heat-recovery program determines heat losses from exhaust and ventilation systems. Potential dollar savings are calculated on the basis of recovering or reducing these losses during the heating season.

Process-Heat Loss
A computer program analyses heat losses from process exhaust air and gases. Potential dollar savings from reclaiming this heat are calculated.

Water Recirculation
A computer program determines the potential savings from recirculating hot water.

Liquid Storage-Task Economics
This program calculates potential savings from insulating closed and open tanks.

Energy-Inflation Economics
This program determines savings attributed to conservation methods for a five-year period, based on an expected energy-inflation rate.

The Energy Bus has called upon 1,722 enterprises during its first five years of operation.

Contact: The Energy Group
Ministry of Industry and Trade
Hearst Block
900 Bay Street
Toronto, Ontario
M7A 2E6
(416) 965-4356

OR

Ontario Area Field Office
Small Business and Field Services Branch
Ministry of Industry and Trade
See Appendix D

SUMMARY CHARTS

TAX INCENTIVES

FEDERAL TAX INCENTIVES

Program	*Eligibility*	*Incentive*	*Contact*
Accelerated Capital Cost Allowances	• Energy equipment manufacturing firms • Firms purchasing air and water pollution-control devices	• 50% of cost of machinery and equipment used in manufacturing and processing and purchased before November 12, 1981 may be claimed as depreciation during the year of purchase. The balance may be claimed in any subsequent year (Class 29). Equipment purchased after November 12, 1981 qualifies for a three year write-off (up to 25 per cent the first year, an additional 50 per cent in the second year and the balance in any subsequent year). • Capital expenditures for air and water pollution-control equipment may be written-off over a two-year period at 50% per year (Class 24 and 27). A three year write-off applies to assets purchased after November 12, 1981.	Tax Interpretations Revenue Canada P.O. Box 100 Station Q Toronto, Ontario M4T 2L7 (416) 869-1500

Capital Cost Allowances (CCA's)	Firms involved in mineral exploration and development	• Capital Cost Allowances (CCA's) on assets acquired prior to the start of commercial mining production or used for expansion purposes may be claimed at a minimum of 30% or in an amount equal to income from the mine, if greater. • The cost of removing over-burden at a mine site may be written off up to maximum of 100% in any given year (Class 10 or 28).	Tax Interpretations Revenue Canada P.O. Box 100 Station Q Toronto, Ontario M4T 2L7 (416) 869-1500

Program	*Eligibility*	*Incentive*	*Contact*
Class 34 — Energy Conservation Equipment Fast Write-Off	Firms undertaking capital expenditures for energy-efficient equipment	Eligible assets that save energy or use renewable energy can be written off over: • two years if acquired after May 25, 1976 and before November 12, 1981 (up to 50% in the first year and the balance in any subsequent year) • three years if acquired after November 12, 1981 (up to 25% in the first year, up to 50% in the second year and the balance in any subsequent year) Qualifying assets include: • equipment used to produce heat and/or electricity using wood wastes or municipal wastes • active solar equipment providing water heating and space heating in new buildings • small-scale hydro equipment (15mW maximum) • heat-recovery equipment.	Tax Incentives Program Secretariat Energy Conservation and Oil Substitution Branch Energy, Mines and Resources Canada 580 Booth Street Ottawa, Ontario K1A 0E4 (613) 995-9447

Earned Depletion	Firms engaged in mineral, oil and gas exploration and development	Depletion allowances provide for a deduction of 33-1/3% of specified expenditures for mineral, oil and gas exploration and development. After January 1, 1981, for domestic exploration expenses, the rate is 33-1/3% net of any incentive payments. Depletion allowances for expenditures outside the Canada Lands will be phased out according to the following schedule: • 1982 - 20% • 1983 - 10% • 1984 - 0%. The depletion allowance for conventional oil and gas development has been eliminated as of January 1, 1981. Certain tertiary recovery projects are eligible for a depletion allowance of 33-1/3% of qualifying expenditures, net of any incentive payments. In all cases, earned depletion will be deductible up to a maximum of 25% of resource income. Any taxpayer (corporate or individual) must have resource profits to claim the earned depletion incentive.	Tax Interpretations Revenue Canada P.O. Box 100 Station Q Toronto, Ontario M4T 2L7 (416) 869-1500

Program	*Eligibility*	*Incentive*	*Contact*
Earned Depletion (continued)		The depletion allowance for mining firms was expanded under the April 1983 Federal Budget.	
Exploration and Development Expense Deductions	Firms engaged in mineral, oil and gas exploration and development	Canadian Development Expenses (CDE) qualify for a 30% write-off. Canadian Exploration Expenses (CEE) qualify for a 100% write-off. New mine development costs may be deducted as CEE. Canadian Oil and Gas Property Expense (COGPE) qualifies for a 30% write-off. Exploration and development activities conducted through drilling funds are eligible for CCE, CDE and COGPE deductions.	Tax Interpretations Revenue Canada P.O. Box 100 Station Q Toronto, Ontario M4T 2L7 (416) 869-1500
Federal Excise Gasoline Tax Refund	Individuals using gasoline for a range of commercial or business activities	The federal excise tax on gasoline charged at the rate of 1.5 cents per litre is not levied against purchases of fuel to be used for specific purposes. Examples include: • exploration and development of natural resources • aerial spraying, seeding and pest control	Excise Tax Collections Revenue Canada P.O. Box 460 Station Q Toronto, Ontario M4T 2L7 (416) 966-6095

Investment Tax Credit	Corporations and individuals engaged in manufacturing and processing, logging or exploring and drilling for oil, gas and minerals Firms engaged in research and development	The Investment Tax Credit offers: • 7% deduction under the Income Tax Act for depreciable equipment used in manufacturing and processing, logging, or exploring or drilling for oil, gas and minerals • 10% tax credit for firms engaged in research and development • 25% tax credit for research conducted by a Canadian controlled private corporation which qualifies for the small business deduction. Several changes were introduced to the Investment Tax Credit under the April 1983 Federal Budget. Please see the program description.	Tax Interpretations Revenue Canada P.O. Box 100 Station Q Toronto, Ontario M4T 2L7 (416) 869-1500

Program	*Eligibility*	*Incentive*	*Contact*
Machinery Program (MACH)	Firms importing machinery and equipment	Duty payable on goods classified under specified tariff items may be remitted if such goods are not available from production in Canada. Eligible machinery includes: • general-purpose machinery • metal and woodworking machinery • construction and materials handling equipment • pulp and paper machinery • plastics machinery • logging machinery.	The Secretary Machinery and Equipment Advisory Board Department of Industry, Trade and Commerce 235 Queen Street Ottawa, Ontario K1A 0H5 (613) 992-1004
Prospectors' and Grubstakers' Tax Incentives	Prospectors and grubstakers engaged in exploration and development	• Property transferred to a corporation in exchange for shares may occur free of any tax expense. • Prospecting expenses classified as Canadian Exploration Expenses (CEE) or Canadian Development Expenses (CDE) may be written off against income from all sources.	Tax Interpretations Revenue Canada P.O. Box 100 Station Q Toronto, Ontario M4T 2L7 (416) 869-1500

Research and Development Tax Incentive	Firms conducting energy research and development	Capital expenditures for research and development rnay be fully written off in the year that they are made. Fifty per cent of the increase in specific energy research and development expenditures for the previous three years can be deducted. Research and development expenditures also qualify for the Investment Tax Credit. Several changes were introduced to this incentive under the April 1983 Federal Budget. Please see the program description.	Tax Interpretations Revenue Canada P.O. Box 100 Station Q Toronto, Ontario M4T 2L7 (416) 869-1500
Sales and Excise Tax Exemptions	Manufacturers and producers of certain energy-related goods	Certain energy-related goods are exempt from the 9% sales tax imposed on items manufactured or produced in Canada. Exempt goods include: • aircraft used in exploration and development • pipe, fittings, valves • mine trucks • logging equipment • geophysical equipment • anti-pol!utant equipment • heat pumps • solar equipment • insulation materials • wind deflectors.	Excise Tax Collections Revenue Canada P.O. Box 100 Station Q Toronto, Ontario M4T 2L7 (416) 966-6083

Program	*Eligibility*	*Incentive*	*Contact*
Small Business Deductions	Canadian-controlled private small businesses	The deduction reduces the federal tax rate from 46% to 25% on active business income. The amount of active business income eligible for tax reduction is $200,000 if cumulative retained business income is less than $1,000,000. This incentive may be attractive to small businesses engaged in manufacturing energy-related equipment and materials.	Tax Interpretations Revenue Canada P.O. Box 100 Station Q Toronto, Ontario M4T 2L7 (416) 869-1500

ONTARIO TAX INCENTIVES

Program	*Eligibility*	*Incentive*	*Contact*
Gasoline Tax Exemptions	Firms and individuals purchasing alternate fuels	The exemption applies to: alcohol when used alone or blended with another fuel for generating power by internal combustion; all natural and manufactured gases including propane are exempt from this tax for all uses. The current *ad valorem* rate is 20%.	Motor Fuels and Tobacco Tax Branch Ministry of Revenue P.O. Box 622 33 King Street West Oshawa, Ontario L1H 8H6 Zenith: 8-2000 (Area Code 807 callers) 1-800-268-7121 (Callers from other areas) (416) 433-6300 (local callers)
Retail Sales Tax Exemption for Energy Conservation Materials and Equipment	Purchasers of energy conservation materials and equipment	Exemption from the 7% retail sales tax applies to vehicles that are powered by alternative fuels. Exemption also applies to the fuel to operate such vehicles. See the program description for a list of eligible fuels. Conversion kits are also exempt from the tax. Vehicles converted within 30 days of purchase are eligible for a full sales tax rebate.	Your Local Retail Sales Tax Field Office See Appendix C

Program	*Eligibility*	*Incentive*	*Contact*
Retail Sales Tax Exemption for Mineral Exploration and Development Equipment	Firms and individuals engaged in mineral, oil or gas exploration and development	Exemption from the 7% retail sales tax applies to eligible equipment used for oil-well and gas-well purposes. Examples are: • pipes • tubes • castings • drilling pipes. Eligible equipment used in oil, natural gas and mineral exploration and development are also exempt. Examples are: • wire rope • drilling bits • seismic slot hole casting	Your Local Retail Sales Tax Field Office See Appendix C
Retail Sales Tax Exemptions for Research and Development Equipment and Machinery	Manufacturers purchasing research and development equipment	Specified machinery and equipment used in the development of products or manufacturing processes are exempt from the 7% retail sales tax. Examples are: • computers • test equipment • control equipment • plans and drawings used for research and development	Your Local Retail Sales Tax Field Office See Appendix C

Temporary Income Tax Exemption for Small Businesses	Small Business Corporations	An income tax holiday is in effect for eligible small business corporations for three taxation years ending between May 13, 1982 and May 14, 1985.	Corporations Tax Branch Ministry of Revenue P.O. Box 622 33 King Street West Oshawa, Ontario L1H 8H6 Zenith 8-2000 (Area Code 807 callers) 1-800-268-7121 (Callers from all other areas) (416) 433-6300 (local callers)

FINANCIAL INCENTIVES

FEDERAL FINANCIAL INCENTIVES

Program	*Eligibility*	*Incentive*	*Contact*
Program of Accelerated Demonstration of Solar Domestic Water Heating	Solar-associated companies	The objective is to demonstrate residential hot-water-heating solar systems. Five million dollars has been allocated to the program for installation and monitoring of the systems from 1982 to 1985. Homeowners pay $500 for each system and retain ownership rights.	Coal and Alternative Energy Branch Energy, Mines and Resources Canada 580 Booth Street Ottawa, Ontario K1A 0E4 (613) 995-9447
Atomic Energy of Canada Limited (AECL)	Firms engaged in nuclear engineering and research and development	AECL will work in co-operation with private enterprise to develop and improve nuclear technology. Areas of interest include future fuel cycles, fabrication processes and plant designs.	Atomic Energy of Canada Limited Engineering Company Sheridan Park Research Community Mississauga, Ontario L5K 1B2 (416) 823-9040
Canada Centre For Mineral and Energy Technology (CANMET)	Enterprises involved in mineral, metal and fossil fuel technology research and development are eligible.	CANMET conducts, sponsors and contracts applied research and development in the areas of mineral, metal and fossil-fuel technology. The Centre performs research for private enterprise on a full or partial cost-recovery basis.	Energy Information Officer CANMET 580 Booth Street Ottawa, Ontario K1A 0E4 (613) 995-4029 or 996-1330

Canada Mortgage and Housing Corporation External Research Program	Individuals, university researchers, institutions, consulting firms, engineers, architects and the housing industry are eligible	The program provides grants in support of advanced research in the social, economic, legislative, environmental, physical or administrative aspects of housing. Grants of up to $3500 are available for short-term studies. Grants of up to $20,000 are available for longer-term studies.	The Administrator External Research Program Research Administration and Co-ordination Division Canada Mortgage and Housing Corporation Ottawa, Ontario K1A 0P7 (613) 748-2250
Canada Mortgage and Housing Corporation University Scholarships Program	Individuals in Masters' and Doctoral degree programs studying the social, physical, environmental, legal or administrative aspects of housing may compete for one-year scholarships.	The program encourages post-graduate students to study various aspects of housing. The awards are made through a national competition of candidates with demonstrated ability and high academic performance.	Application forms may be obtained from: • Office of Graduate Studies or individual departments at universities • regional offices of CMHC or by writing to: Administrative Officer Scholarships Canada Mortgage and Housing Corporation Ottawa, Ontario K1A 0P7

Program	*Eligibility*	*Incentive*	*Contact*
Canada Oil Substitution Program (COSP)	Churches, schools, libraries, community buildings, apartments	Taxable grants covering 50% of the costs of materials and labour required for the conversion of an oil-heating system to an alternate fuel source are available. The maximum grant is $800 per single-family dwelling. Additional funding is available for multiple-unit dwellings.	Your local gas or electric utility OR Conservation and Renewable Energy Office Energy, Mines and Resources Canada 2242 Lakeshore Boulevard West Toronto, Ontario M8V 1A5 Toronto area: (416) 252-5866 Toll free: 1-800-268-2207 OR Policy Advisor Canada Oil Substitution Program Ministry of Energy 56 Wellesley Street West Toronto, Ontario M7A 2B7 (416) 965-1598

Canada/ Saskatchewan Heavy Oil Agreement	Firms, research facilities, consultants and individuals engaged in the development of heavy-oil-recovery technology and processes	Up to 100% of technology or process development may be funded by the Governments of Canada and Saskatchewan. Six million dollars has been allocated to this program. Under agreements with industrial partners, funding will not exceed 50% of the total project cost.	Director-General Petroleum Resources Energy, Mines and Resources Canada 580 Booth Street Ottawa, Ontario K1A 0E4 (613) 995-9351
Canadian Home Insulation Program (CHIP)	Homeowners, landlords and tenants living in dwellings constructed after January 1, 1971	Owners and tenants of detached, semi-detached or row units (including mobile homes) may receive a grant for 60% of insulation materials, or materials and labour combined, up to $500. Funding is also available for multiple-unit dwellings.	Canadian Home Insulation Program P.O. Box 1270, Station T Toronto, Ontario M6B 4A4 (416) 789-0581 Toll free: 1-800-268-1818 Collect calls will be accepted from Area Code 807
Canertech Incorporated	Firms engaged in the development of innovative renewable-energy and energy-conservation technologies	Canertech is a venture-capital development enterprise that invests in, or enters into, joint ventures with firms developing renewable energy or energy-conservation technology.	Canertech Incorporated 1003-213 Notre-Dame Avenue Winnipeg, Manitoba R3B 1N3 (204) 949-1160

Program	*Eligibility*	*Incentive*	*Contact*
Contracting Out: Science and Technology Program	Enterprises engaged in energy research and development	The Science and Professional Services Directorate of Supply and Services Canada solicits proposals from the private sector in response to departmental requests for research projects	Contracting Out: Science and Technology Program Science and Professional Services Directorate Supply and Services Canada Place du Portage, Phase III, 2C2 11 Laurier Street Hull, Quebec K1A 0S5 (819) 997-2686
Design Assistance to Business (Design Canada)	Small and medium-sized firms engaged in product design development or improvement	Design Canada promotes Canadian design and product development through financial incentives, management training, technical assistance and information seminars. Contributions are made to enterprises for design projects from the Enterprise Development Program (EDP) and the Product Development Management Program (PDMP).	Design Canada Department of Industry, Trade and Commerce 235 Queen Street Ottawa, Ontario K1A 0H5 (613) 992-0341

Development and Demonstration of Resource and Energy Conservation Technology (DRECT)	Enterprises, provincial governments and municipalities interested in developing and demonstrating resource and energy-conservation technology	DRECT will provide shared-cost funding for the development of conservation technology that utilizes municipal or industrial wastes. DRECT will provide 50% of the total estimated cost of an approved project.	Manager DRECT Secretariat Environment Canada Place Vincent Massey 351 St. Joseph Boulevard 16th Floor Hull, Quebec K1A 1C8 (819) 997-2057
Distribution System Expansion Program (DSEP)	All natural-gas distribution agents, including gas utilities, provincial Crown Corporations, co-operatives and municipal utility commissions	The objective of DSEP is to encourage the expansion of distribution systems for natural gas. Funding is available for distribution-system expansion.	DSEP Administration Natural Gas Branch Energy, Mines and Resources Canada 580 Booth Street Ottawa, Ontario K1A 0E4 (613) 995-2500
Energy Conservation Research and Development: Buildings Sector	Private firms and universities engaged in energy research and development in the buildings sector	The program provides technical assistance, engineering services and operational systems for conservation projects involving existing building technologies. The program is directed at a wide range of buildings. It focuses on shell construction, mechanical systems and appliances. Research and development is contracted out.	Energy, Conservation and Oil Substitution Branch Energy, Mines and Resources Canada 460 O'Connor Street, 11th Floor Ottawa, Ontario K4S 5H3 (613) 995-1118

Program	*Eligibility*	*Incentive*	*Contact*
Energy From the Forest Program (ENFOR)	Firms conducting biomass research, development and demonstration projects	ENFOR will provide up to 100% funding for research, development and demonstration projects involving biomass production, and conversion into energy.	ENFOR Secretariat Canadian Forestry Service Environment Canada Place Vincent Massey 351 St. Joseph Boulevard 19th Floor Hull, Quebec K1A 1G5 (819) 997-3409
Energy Research and Development in Agriculture and Food Program (ERDAF)	Individuals, Canadian-owned industry and research establishments involved in energy research and development in agriculture and food	ERDAF enhances research and development in liquid fuels, conservation and renewable energy in the agricultural sector. Projects are contracted out to agencies that are not part of the federal government. Requests for proposals are advertised in the monthly R and D Bulletin published by Supply and Services Canada.	Manager Energy Research and Development in Agriculture and Food Program Engineering and Statistical Research Institute Research Branch Agriculture Canada Ottawa, Ontario K1A 0C6 (613) 995-3151

Energy Research and Development Program	Consultants, enterprises and university researchers engaged in energy research and development	Funding for research and development is available for the following areas: • alternatives to gasoline • increased energy efficiency • development of new energy sources	Office of Energy Research and Development Energy, Mines and Resources Canada 580 Booth Street Ottawa, Ontario K1A 0E4 (613) 992-9488
Enterprise Development Program (EDP)	Small and medium-sized manufacturing and processing firms engaged in product design and development	EDP assists firms with the development of new or improved products or processes. Shared-cost arrangements for up to 75% of eligible costs are available. Insurance for up to 90% of a term loan is available for a 1% annual fee. This program is being absorbed under the new Industrial and Regional Development Program (IRDP).	Regional Director Department of Industry, Trade and Commerce Regional Office 1 First Canadian Place P.O. Box 98, Suite 4840 Toronto, Ontario M5X 1B1 (416) 369-4951 Zenith: 0-3200
Federal Business Development Bank (FBDB)	Canadian enterprises that are unable to arrange financing from conventional sources	The FBDB will provide the following forms of assistance: • term loans • interim financing • loan guarantees • equity financing • management counselling and information services	See Appendix A

Program	*Eligibility*	*Incentive*	*Contact*
Forest Industry Renewable Energy Program (FIRE)	Firms engaged in substituting wood residues, municipal and agricultural wastes, peat or other biomass for fossil fuels	Grants of 10% to 20% of the capital costs for fuel handling and burning equipment and electrical generation equipment are available.	FIRE Program Secretariat Renewable Energy Division Energy, Mines and Resources Canada 580 Booth Street Ottawa, Ontario K1A 0E4 (613) 995-9447
Housing Technology Incentives Program	Individuals, builders and building product manufacturers engaged in the development of housing technology	Up to $10,000 is available for projects that relate to energy conservation, residential rehabilitation and housing innovations for disabled persons.	Manager Housing Technology Incentives Program Canada Mortgage and Housing Corporation Montreal Road Ottawa, Ontario K1A 0P7 (613) 748-2340

Industrial and Regional Development Program (IRDP)	A wide range of commercial and industrial firms, organizations and technological institutes are eligible for assistance.	IRDP provides funding assistance to promote industrial restructuring and development across Canada. The level of assistance corresponds to the level of regional disparity in each of Canada's 260 census divisions.	Manager Business Information Centre Department of Industry, Trade and Commerce 1 First Canadian Place Suite 4840 P.O. Box 98 Toronto, Ontario M5X 1B1 (416) 369-4941 Zenith: 0-3200
Industrial Conversion Assistance Program (ICAP)	Industrial and commercial firms burning No. 6 fuel oil in boilers and process heaters Private institutions also qualify.	ICAP provides a contribution of 50% of the eligible capital costs for converting existing boilers or process heaters from oil to natural gas.	Your local natural gas supplier or ICAP Secretariat Energy Conservation and Oil Substitution Branch Energy, Mines and Resources Canada 580 Booth Street Ottawa, Ontario K1A 0E4 (613) 995-9447

FEDERAL FINANCIAL INCENTIVES

Program	*Eligibility*	*Incentive*	*Contact*
Industrial Energy Research and Development Program (IERD)	Canadian companies, consulting firms, trade and research organizations or individuals engaged in industrial energy conservation research and development	Funding up to a maximum of 50% of research and development costs is available for energy-efficient industrial processes, products or equipment. Eight million dollars has been allotted to the IERD program for 1983-84.	Deputy Secretary Industrial Energy Research and Development Program Program Development and Operations Branch Department of Industry, Trade and Commerce 235 Queen Street Ottawa, Ontario K1A 0H5 (613) 995-7174
Industrial Research Assistance Program (IRAP)	Incorporated companies engaged in scientific and engineering research	IRAP will contribute to the salaries of scientists and technicians directly employed in industrial research. Technical assistance and information services are also available from IRAP.	Director Industrial Research Assistance Program National Research Council of Canada Montreal Road Ottawa, Ontario K1A 0P6 (613) 993-0496 or 993-0331

New Oil Reference Price Supplement (NORP)	Ontario producers of new oil	NORP encourages the discovery and development of new sources of domestic oil by providing a price supplement that brings the price of new oil up to the limit of international prices.	Petroleum Resources Section Ontario Ministry of Natural Resources 1106 Dearness Drive London, Ontario N6E 1N9 (519) 681-5350
New Technology Employment Program (NTEP)	Small firms, individuals, associations, colleges, universities, research institutes, non-profit Crown Corporations and community organizations are eligible.	The program assists with job creation in manufacturing, processing, and product development. Up to 75% of the wages for a scientific or technical postgraduate will be paid. The maximum contribution is $290 per week per job. Funding in support of a job may be provided for up to 12 continuous months to a maximum of $150,000 for each employer.	New Technology Employment Program Canada Employment and Immigration Commission 4900 Yonge Street, Suite 700 North York, Ontario M2N 6A8 (416) 224-4703
Oil Import Compensation Payments Program	Importers of foreign crude and petroleum products are eligible.	The program pays importers of foreign oil the differential amount between the average cost of crude oil imported to Montreal and the cost of similar Canadian crude delivered to Montreal.	Oil Pricing and Compensation Programs Branch Energy, Mines and Resources Canada 580 Booth Street Ottawa, Ontario K1A 0E4 (613) 995-2500

FEDERAL FINANCIAL INCENTIVES

Program	*Eligibility*	*Incentive*	*Contact*
Petroleum Incentives Program (PIP)	Corporations, partnerships, trusts or individuals engaged in the exploration and development of oil and gas	The program is structured to favour exploration and development investment by Canadian companies and individuals. The incentive payments supplement depletion allowances that were reduced under the National Energy Program (NEP). Incentives are determined on the basis of eligible exploration and development costs and ownership structures.	Petroleum Incentives Program Energy, Mines and Resources Canada 344 Wellington Street 5th Floor West Memorial Building Ottawa, Ontario K1A 0E4 (613) 996-2611
Program for Export Market Development (PEMD)	Firms expanding into international markets	PEMD provides for up to 50% of the costs incurred by a company attempting to enter foreign markets.	Director, Trade Development Program for Export Market Development Department of Industry, Trade and Commerce 1 First Canadian Place Toronto, Ontario M5X 1B1 (416) 365-3737

Program for Industry/Laboratory Projects (PILP)	Canadian firms willing to transform government or institutional research into new products or processes	The program will share the costs for projects that enhance technology transfer from the public to the private sector. Funding is designed to offset the risk of commercializing new technology.	General Manager Program for Industry/ Laboratory Projects National Research Council of Canada Building M-58 Montreal Road Ottawa, Ontario K1A 0R6 (613) 993-0357
Project Research Applicable In Industry (PRAI)	Academic staff of Canadian universities	The program encourages the transfer of research results from universities to industry. Grants are available to academics to develop commercially viable projects in cooperation with industry.	Awards Officer Project Research Applicable in Industry Natural Sciences and Engineering Research Council Montreal Road Ottawa, Ontario K1A 0R6 (613) 993-3546
Propane Grant Program for Commercial and Farm Vehicles	Corporations, individuals, Crown Corporations, non-profit organizations, municipalities, regional governments and farmers are eligible.	A taxable grant of $400 is available for each vehicle either purchased new with a propane system or converted to propane from gasoline. Diesel-powered vehicles converted to a mixed diesel/propane fuel system are also eligible for a grant.	Regional Information Officer Energy, Mines and Resources Canada 2242 Lakeshore Boulevard West Toronto, Ontario M8V 1A5 Toronto area: (416) 252-5866 Toll free: 1-800-268-2207

Program	*Eligibility*	*Incentive*	*Contact*
Propane Grant Program for Commercial and Farm Vehicles (continued)			OR Propane Vehicle Grant Program Energy, Mines and Resources Canada P.O. Box 4513, Station E Ottawa, Ontario K1S 5K6 (613) 995-3433
Purchase and Use of Solar Heating Program (PUSH)	Designers, installers and manufacturers of solar heating systems are eligible.	PUSH provides advantages to Canadian manufacturers of solar space and hot water heating systems. Canadian producers will be given first priority for contract work to outfit federal government buildings. Some $125 million has been allocated to the program for 1979 to 1984.	Purchase and Use of Solar Heating Program Public Works Canada Sir Charles Tupper Building Riverside Drive Ottawa, Ontario K1A 0M2 (613) 998-9817

Regional Development Incentives Program (RDIP)	Enterprises located in Eastern and Northern Ontario	The program offers financial incentives to manufacturing and processing firms for development and expansion purposes in areas of slow growth and low employment. This program is being absorbed under the new federal Industrial and Regional Development Program (IRDP).	Ontario Region Department of Regional Economic Expansion 1 First Canadian Place Suite 4600 P.O. Box 98 Toronto, Ontario M5X 1B1 (416) 365-3737
Remote Community Demonstration Program (RCDP)	Remote communities, utilities, companies, Crown Corporations and government departments are eligible.	RCDP provides financial assistance and promotes the exchange of information to encourage the adoption of alternative energy sources and energy conservation in remote communities.	Conservation and Renewable Energy Office Energy, Mines and Resources Canada 2242 Lakeshore Boulevard West Toronto, Ontario M8V 1A5 (416) 252-5866 1-800-268-2207 (toll free)
Research Agreements Program (RAP)	Firms conducting research in the following areas are eligible: • natural sciences • physical sciences • social sciences • engineering sciences.	Funding agreements will be entered into with firms conducting research that will enhance future supplies of mineral and energy sources.	Coordinator External Research Programs Energy, Mines and Resources Canada 580 Booth Street Ottawa, Ontario K1A 0E4 (613) 992-5265

FEDERAL FINANCIAL INCENTIVES

Program	*Eligibility*	*Incentive*	*Contact*
Residential Rehabilitation Assistance Program (RRAP)	Owners of substandard housing, non-profit corporations and co-operatives are eligible.	Homeowners may receive loans of up to $10,000 for repairs to substandard housing in designated areas. Up to $5,000 may not have to be repaid depending on the applicant's income. Landlords are eligible for forgivable loans up to $3,500 per dwelling for rehabilitation purposes.	The CMHC branch office nearest you OR your local Municipal Office
Small Business Loans Act (SBLA)	Manufacturers, service operations, wholesale and retail traders, construction firms and transportation companies classified as small businesses are eligible.	SBLA loans are available for: • the purchase of new equipment • the purchase or construction of new premises • the purchase of land for the operation of a business, including the buildings thereon. The maximum loan that can be outstanding for any one business is $100,000.	Manager Business Information Centre Department of Industry, Trade and Commerce 1 First Canadian Place Suite 4840 P.O. Box 98 Toronto, Ontario M5X 1B1 (416) 369-4941 Zenith 0-3200

Solar Energy Research and Development Program	Any group or individual engaged in solar research and development is eligible.	The objective of the program is to sponsor and promote the development of solar technology in Canada. A series of solar research and development contracts are being awarded to the private sector to foster development. The program is directed at active and passive systems, and photovoltaics.	Solar Energy Program Solar Technical Information Office National Research Council of Canada Montreal Road Ottawa, Ontario K1A 0R6 (613) 993-9224
Special Old Oil Price Supplement (SOOP)	Ontario producers of oil discovered after 1973 and prior to 1981 are eligible for special supplements.	The supplement provides a stimulus to the petroleum industry by improving cashflow positions of old-oil producers. The supplement is paid on the basis that the price for old oil is 75% of the international price.	Petroleum Resources Section Ontario Ministry of Natural Resources 1106 Dearness Drive London, Ontario N6E 1N9 (519) 681-5350
Strategic Grants In Aid of Research	Academic staff at Canadian universities conducting energy research in the natural sciences and engineering fields are eligible.	Strategic grants are available to assist university researchers with energy-research projects. The application process for funding must be completed by May 1 of each year. Energy-related grants totalled $7.4 million in 1982-83.	Director of Programs Natural Sciences and Engineering Research Council Montreal Road Ottawa, Ontario K1A 0R6 (613) 993-3066

FEDERAL FINANCIAL INCENTIVES

Program	*Eligibility*	*Incentive*	*Contact*
Super Energy-Efficient Home (R-2000) Program (SEEH)	Builders interested in constructing energy-efficient housing are eligible.	A grant of $6,500 per house is available to builders to construct and demonstrate energy-efficient homes. Homes must have an energy budget of less than 50 kWh per square metre per year. Three hundred homes will be built across Canada under SEEH.	SEEH (R-2000) Program Energy Conservation and Oil Substitution Branch Energy, Mines and Resources Canada 580 Booth Street Ottawa, Ontario K1A 0E4 (613) 995-1118
Transportation and Energy Initiatives	All firms and individuals engaged in alternative-fuels research and development, propane conversions or energy conservation in transportation are eligible for assistance.	• The Alternative Fuels Research and Development initiative is funding the development of new liquid fuels up to $100 million between 1981 and 1983. • Automobile workshops and seminars are being provided through driver associations and other organizations. • The Federal Propane Motor Fuel Demonstration is providing documentation on the Canadian experience with propane-vehicle operations. Information on fuel consumption, vehicle maintenance and conversion equipment is available.	Communications Branch Energy, Mines and Resources Canada 580 Booth Street Ottawa, Ontario K1A 0E4 (613) 995-3065

Transportation and Energy Initiatives (continued)		• The Truck Energy Conservation Demonstration is being developed for trucking firms. • Incentives for fueling station operators who intend to install compressed natural gas facilities are available. The program provides a taxable contribution of up to $50,000 per outlet. • Taxable contributions of up to $500 toward the cost of converting a vehicle to CNG are available to commercial and private consumers.	
Unsolicited Proposals for Research and Development	Companies, individuals, universities and non-profit organizations conducting research are eligible.	The program was initiated to enable the federal government to respond to research proposals submitted from the private sector on an unsolicited basis. Project funding ranges from $10,000 to in excess of $1 million. Research projects must relate to existing federal government department programs.	Head Unsolicited Proposals Program Support Group Supply and Services Canada Place du Portage, Phase III, 12C1 11 Laurier Street Hull, Quebec K1A 0S5 (819) 997-7442, 994-0449

ONTARIO FINANCIAL INCENTIVES

Program	*Eligibility*	*Incentive*	*Contact*
Agreements Under the Woodlands Improvement Act	Owners of five or more acres of land suitable for planting trees or for woodland improvement are eligible.	The Ministry of Natural Resources will enter into agreements with landowners to plant trees or to improve existing woodlands. Advisory Service Agreements are also available. These provide owners with working plans for property management, tree marking and general advisory services.	Woodlands Improvement Act Agreements Ministry of Natural Resources Whitney Block, 3rd Floor 99 Wellesley Street West Toronto, Ontario M7A 1W3 (416) 965-2785
Alternative Transportation Fuels Program	Firms, municipal governments and individuals engaged in the development and commercialization of alternative fuels are eligible.	Funding is available for alternative fuel research, development and demonstration projects. Cost-sharing arrangements will be negotiated with the private sector to accelerate the development of electric vehicles, alcohol fuels and hydrogen.	Alternative and Renewable Energy Group Ministry of Energy 56 Wellesley Street West Toronto, Ontario M7A 2B7 (416) 965-4366

Development Corporations	Secondary manufacturers and service industries engaged in product development and enterprise expansion	The Corporations will provide loan guarantees, term loans or export lines of credit to assist firms with product development, asset acquisition, building purchases, pollution control and energy-saving equipment costs. Lending limits are $500,000 for individual term loans and $1,000,000 for loan guarantees and export lines of credit.	Information Officer Development Corporations 1200 Bay St. Queen's Park Toronto, Ontario M7A 2E7 (416) 965-4622
Energy From Waste (EFW) Program	Enterprises and individuals engaged in developing energy from waste and biomass projects are eligible.	Funding is available to cover up to 50% of eligible costs associated with the development of energy from waste projects. Equity financing may be negotiated for capital expenditures on EFW plants through the Ontario Energy Corporation (OEC).	Manager Energy From Waste/Biomass Section Alternative and Renewable Energy Group Ministry of Energy 56 Wellesley Street West Toronto, Ontario M7A 2B7 (416) 965-0309
Municipal Oil Conversion and Energy Conservation Program	Municipalities	The program assists municipalities with getting off oil and improving the energy efficiency of buildings. Up to 50% of the project costs to a maximum of $50,000 is available.	Municipal Oil Conversion and Energy Conservation Program Energy Conservation Group Ministry of Energy 56 Wellesley Street West Toronto, Ontario M7A 2B7 (416) 965-5743

ONTARIO FINANCIAL INCENTIVES

Program	*Eligibility*	*Incentive*	*Contact*
Ontario Energy Corporation (OEC)	Firms and individuals developing new energy sources and technologies	The OEC will enter into joint ventures or equity investments with energy-source and technology developers. The OEC is interested in a wide range of energy-related areas including alternate fuels, conservation technologies, renewable energy and oil and natural gas.	Vice-President, Corporate Development Energy Technology Ontario Energy Corporation 101 Bloor Street West, 5th Floor Toronto, Ontario M5S 1P7 (416) 926-4226
Ontario Home Renewal Program (OHRP)	Low-income owners of substandard housing are eligible for rehabilitation assistance.	Loan assistance is available to improve faulty structural conditions and to upgrade insulation, heating and electrical systems. The maximum loan available to eligible homeowners is $7,500. A forgivable portion of the loan can be earned by continued occupancy and ownership. The maximum amount of the loan that may be forgiven cannot exceed $4,000.	Information and application forms are available at your local Municipal Office OR Community Housing Division Ministry of Municipal Affairs and Housing 12th Floor 101 Bloor Street West Toronto, Ontario M5S 1P8 (416) 965-9650

Ontario Mineral Exploration Program (OMEP)	Prospectors, non-producing exploration companies, corporations and individual investors engaged in mineral exploration	Individuals and prospectors qualify for a grant of 25% of eligible exploration expenses. Companies and corporations are eligible for a 25% tax credit for eligible expenses.	Ontario Mineral Exploration Program Ministry of Natural Resources Room 4649 Whitney Block Toronto, Ontario M7A 1W3 (416) 965-1062
Ontario Municipal Energy Audit Program	Municipalities	Grants are available to municipalities to employ an energy auditor. Up to 80% of the employment costs to a maximum of $20,000 is available. Auditors will measure energy consumption and develop conservation procedures for the municipality.	Program Administrator Subsidies Branch Ontario Municipal Energy Audit Program Ministry of Municipal Affairs and Housing 56 Wellesley Street West Toronto, Ontario M7A 2R8 (416) 965-3500
Program to Encourage Product and Process Innovation (PEPPI)	Inventors and small-business entrepreneurs are eligible.	The program assists inventors and entrepreneurs with developing a prototype of an invention. Funding is available for projects that exceed $5,000 in total costs. Funding for 100% of total project costs up to $10,000 is available.	See Appendix D

ONTARIO FINANCIAL INCENTIVES

Program	*Eligibility*	*Incentive*	*Contact*
Promotion Aids Marketing Program (PAMP)	Manufacturing companies launching a new product	The program assists firms that require funds to launch a new product. Assistance totalling 50 per cent of the eligible costs to a maximum of $7,500 is available.	See Appendix D
Residential Energy Advisory Program (REAP)	Homeowners	REAP will provide an energy audit to the homeowner experiencing energy efficiency problems. Loans of up to $2,000 are available for improvements. The repayment period is five years.	Your Local Municipal Utility OR Ontario Hydro Rural Offices
Small Business Development Corporations (SBDC)	Individuals, pension funds, credit unions, caisses populaires, corporations and limited partnerships interested in investing in small businesses are eligible.	Investors will receive a grant equal to 30% invested in a small business. Corporations are entitled to a 30% tax credit for the amount invested in a small business. An SBDC may be established by investors to direct funds and business expertise to eligible small businesses.	SBDC Program Ministry of Revenue P.O. Box 642 33 King Street West Oshawa, Ontario L1H 8H9 Zenith: 8-2000 (Area Code 807) 1-800-268-7121 (Callers from all other areas) (416) 433-6300 (local callers)

Small Business Industry Technology Program (SBITP)	Small secondary manufacturers engaged in new-product or process development are eligible.	The SBITP assists small manufacturers with advancing the skills of their technical staff. Projects must involve new products or processes not previously produced in Canada. Assistance is available for projects not exceeding $25,000 in total costs. Funding covers up to 75% of eligible costs, to a maximum of $15,000.	See Appendix D
The Technological Assessment Rebate Program (TAP)	Canadian-owned small manufacturing firms are eligible.	The program provides up to $3,600 for preliminary assessment and planning studies for manufacturing projects. The applicant is required to pay the initial $400 for project costs. Eligible costs include consulting services for research professionals such as scientists, engineers and technologists.	See Appendix D
Upgrading Electrical Power Transmission Facilities	Ontario industries interested in converting plant systems from fossil fuels to electricity	The program encourages industry to use electricity as an alternative to hydrocarbons. The Board of Industrial Leadership and Development (BILD) will fund a portion of the costs for upgrading transmission facilities to enable companies to convert to electricity.	Senior Policy Advisor Electric Power Section Conventional Energy Group Ministry of Energy 11th Floor 56 Wellesley Street West Toronto, Ontario M7A 2B7 (416) 965-8073

ONTARIO FINANCIAL INCENTIVES

Program	*Eligibility*	*Incentive*	*Contact*
Wood Technology Program	Enterprises engaged in the development and demonstration of wood energy technology	The program assists with the development and promotion of new technology for the forest industry and wood energy products. Funding assistance will be provided through contractual arrangements and incentive grants for projects.	Forest Resources Group Ministry of Natural Resources Whitney Block Queen's Park Toronto, Ontario M7A 1W3 (416) 965-2731

FEDERAL/ONTARIO FINANCIAL INCENTIVES

Program	*Eligibility*	*Incentive*	*Contact*
Canada/Ontario Conservation and Renewable Energy Demonstration Program (ENERDEMO)	Industry, consultants, associations, municipalities, colleges, universities and voluntary non-profit organizations are eligible.	The federal and Ontario Governments will share a portion of the costs associated with the development and demonstration of conservation and renewable energy technologies. The program has a total budget of $58 million for the period extending from 1979 to 1984. Intellectual property, including patents, designs and licenses, will be retained by the applicant. Proponents will participate in information-transfer activities targetted at appropriate markets.	Senior Executive Officer Canada/Ontario Conservation and Renewable Energy Demonstration Program Ministry of Energy 56 Wellesley Street West Toronto, Ontario M7A 2B7 (416) 965-5172
Commercial/ Industrial Solar Demonstration Program for Ontario	Corporations, municipalities and registered non-profit or religious organizations engaged in the design, supply or installation of commercial solar systems are eligible.	Cost-sharing arrangements will be available to owners of industrial and commercial buildings or processes. In 1983-84, $2 million has been allocated to assist with the costs of designing, supplying and installing solar systems.	Information Services Ministry of Energy 62 Wellesley Street West Toronto, Ontario M7A 2B7 (416) 965-3246

FEDERAL/ONTARIO FINANCIAL INCENTIVES

Program	*Eligibility*	*Incentive*	*Contact*
Northern Ontario Rural Development Agreement (NORDA)	Individuals, groups corporations or co-operatives undertaking economic development projects in Northern Ontario are eligible.	The program is directed at sustaining, expanding and diversifying the economic base of Northern Ontario. Funding is available for natural resources pre-investment studies, woodlot improvement, manufacturing and processing activities, infrastructure development and employment projects.	Please write to: NORDA Ministry of Northern Affairs 421 Bay Street Suite 301 Sault Ste. Marie, Ontario P6A 1X3
Product Development Management Program (PDMP)	Small secondary manufacturers engaged in product development are eligible.	PDMP assists small manufacturers with product-development projects that do not exceed $25,000 in cost. Financial assistance is provided up to 75% for eligible costs, to a maximum of $20,000.	See Appendix D

INFORMATION SERVICES
AND
TECHNICAL ASSISTANCE

Program	*Eligibility*	*Incentive*	*Contact*
Business Opportunities Sourcing System (BOSS)	All Canadian businesses	Business can access information on Canadian companies, their products and markets through the BOSS. Company data is stored on microfiche and can be quickly accessed. BOSS is used to locate representation for trade missions and fairs in Canada and abroad.	Manager Business Information Centre Department of Industry, Trade and Commerce 1 First Canadian Place Suite 4840 P.O. Box 98 Toronto, Ontario M5X 1B1 (416) 369-4941 Zenith: 0-3200
Business Statistics	All Canadian businesses	Statistics Canada provides business with a comprehensive selection of statistical data. See Appendix G for a complete list of all energy-related statistical publications.	Energy and Minerals Section Statistics Canada Jean Talon Building, 11A2 Holland and Scott Streets Tunney's Pasture Ottawa, Ontario K1A 0T6 (613) 996-3139

Canada Centre For Remote Sensing	Businesses, government departments and universities engaged in natural-resource management and exploration	The Centre develops methods and instruments to collect, disseminate and analyse land and ocean observation data obtained from aircraft and satellites. Remote-sensing surveys are available.	Canada Centre for Remote Sensing Energy, Mines and Resources Canada 2464 Sheffield Road Ottawa, Ontario K1A 0Y7 (613) 933-0121 Telex: 053-3777
Canadian Commercial Corporation (CCC)	Energy-related enterprises engaged in overseas market development may obtain assistance from the Canadian Commercial Corporation.	The Corporation is involved in linking the requirements of foreign governments and international agencies with the supply capabilities of Canadian producers	Canadian Commercial Corporation 112 Kent Street 17th Floor Place de Ville, Tower B Ottawa, Ontario K1A 1E9 (613) 996-0034
Canadian Energy Data Bases	Industry, consultants, individuals, universities, provincial and federal government agencies and research organizations	The data bases are an inventory of energy development and demonstration projects, assistance programs and events. They are available on a full-text-retrieval computer system.	QL Systems Limited 400-36 King Street East Toronto, Ontario M5C 1E5 (416) 862-7656

Program	*Eligibility*	*Incentive*	*Contact*
Computer-Aided Building Energy Systems Analysis (ESA)	Canadian businesses and individuals	The Energy Systems Analysis (ESA) programs simulate building operation and determine how energy supplied to buildings is used and frequently wasted. Computer accounts are available to access these programs.	The Marketing Manager Datacrown Incorporated 1565 Carling Avenue Ottawa, Ontario K1Z 8R1 (613) 722-1002 OR Chief, Energy Conservation Design and Construction Branch Public Works Canada Riverside Drive Ottawa, Ontario K1A 0M2
Energy-Efficient Home Program (Double E Home Program)	Builders and homeowners interested in modifying or building homes to meet high energy-efficient standards.	The program encourages builders and homeowners to build or modify structures to meet high energy-efficient guidelines. The program is delivered by participating electrical utilities.	Manager Customer Services Division Canadian Electrical Association Suite 580 One Westmount Square Montreal, Quebec H3Z 2P9 (514) 937-6187 OR Contact your local utility.

Ener$ave Home Advisory Service	All Canadian homeowners	The Ener$ave Home Advisory Service is a free computerized home energy audit available to all homeowners. The service provides recommendations on practical and economical ways to save energy.	Please write to: Ener$ave Home Advisory Service P.O. Box 4510, Station E Ottawa, Ontario K1S 8B8
Environmental Assessment and Review Process (ERAP)	Energy projects involving federal funds lands or activities must be reviewed under ERAP.	ERAP was established to ensure that environmental effects are assessed early in the planning of proposed federal projects, or projects originating outside the federal government but involving federal funding or property considerations.	Please write to: Executive Chairman Federal Environmental Assessment Review Office Environment Canada Fontaine Building Hull, Quebec K1A 0H3
Heatline Energy Advisory Service	All Canadian homeowners	The Heatline is a nation-wide telephone advisory service on home energy management. Direct advice is offered to householders on economical ways to save energy.	Heatline Energy Advisory Service 1-800-267-9563 For Ottawa residents: 995-1801
Industrial Energy Conservation Program	Industry associations and individual firms throughout Canada	The program assists firms with setting targets for improving energy efficiency and creates greater awareness of conservation. The program encourages the exchange of non-proprietary information and experiences between companies.	Industrial Energy Conservation Program Energy, Mines and Resources Canada 580 Booth Street Ottawa, Ontario K1A 0E4 (613) 995-9447

Program	*Eligibility*	*Incentive*	*Contact*
Inventors' Assistance Program	Enterprises, inventors and entrepreneurs engaged in the development of energy-related technology	The program will provide investors with a preliminary assessment of an invention for a fixed fee of $100. Advice on patent application, technical design requirements, development work, prototype testing and marketing is also available.	Inventors' Assistance Program Canadian Industrial Innovation Centre/Waterloo 156 Columbia Street West Waterloo, Ontario N2L 3L3 (514) 885-5870
Land Inventory and Land Use Management	Private enterprises and all levels of government may use this service.	Land use and special land-use study reports are available to government departments and firms involved in resource-development planning and environmental-impact assessments.	Chief, Canada Land Data Systems Division Lands Directorate Environment Canada Ottawa, Ontario K1A 0E7 (819) 997-2510
Mining Technology Information Data Base (MINTEC)	Engineers, managers, executives, scientists, university professors, students, consultants and technicians requiring information on mining technology	MINTEC is a computer-based file of world mining technology abstracts. The data base can be accessed from remote computer terminals.	QL Systems Limited 400-36 King Street East Toronto, Ontario M5C 1E5 (416) 862-7656

Natural Resources Information (NRI)	Energy-related enterprises involved in mineral, metal and fuel extraction may access natural resources information produced by Energy, Mines and Resources Canada (EMR).	EMR provides up-to-date scientific and technological mining data, land maps, aeronautical charts, air photos, satellite imagery and population and theme maps.	Communications Branch Energy, Mines and Resources Canada 580 Booth Street Ottawa, Ontario K1A 0E4 (613) 995-3065
National Geoscan Centre	Companies conducting mineral-exploration, development or research may access the GEOSCAN data base.	GEOSCAN is a bibliographic data base that controls Canadian-produced or related geoscience documents. Ten to fifteen per cent of the documents contained on the system are energy related.	Head National GEOSCAN Centre Geological Survey of Canada Energy, Mines and Resources Canada 601 Booth Street Ottawa, Ontario K1A 0E8 (613) 992-9550
National Mineral Inventory (NMI)	Firms involved in mineral exploration and development may access the NMI files.	The NMI maintains records of known deposits and occurrences (excluding petroleum and natural gas, but including coal) throughout Canada. A computerized file has been created and records are available on a cost-recovery basis.	Director National Mineral Inventory Energy, Mines and Resources Canada 580 Booth Street Ottawa, Ontario K1A 0E4 (613) 995-9466

Program	*Eligibility*	*Incentive*	*Contact*
National Research Council of Canada (NRCC)	Canadian enterprises, universities, provincial and municipal governments and individuals may receive technical and financial assistance from the NRCC.	The NRCC will undertake specific research at the request of industry and will offer financial assistance to firms carrying out in-house research. The Division of Energy Research and Development (DERD) co-ordinates all federal research and development activities in renewable energy. It is also a lead agency for research in energy conservation. The Energy Inquiries Centre (EIC) is a focal point for general inquiries concerning renewable energy and conservation.	Energy Inquiries Centre Canadian Institute for Scientific and Technical Information National Research Council of Canada Montreal Road Ottawa, Ontario K1A 0S2 (613) 993-3861 OR NRCC contacts are listed in Appendix B.
Technical Information Service (TIS)	Canadian manufacturing enterprises are eligible for technical assistance.	The TIS, administered by the National Research Council of Canada, provides assistance to manufacturing firms for solving technical problems, improving production and developing new products and processes.	Regional Head Technical Information Service National Research Council of Canada Suite 910 789 Don Mills Road Don Mills, Ontario M3C 1T5 (416) 966-5845

Topographical Survey Division	Engineers, exploration and development companies, conservationists, teachers, federal and provincial governments and the general public may obtain topographical maps from Energy, Mines and Resources Canada (EMR).	Topographical maps in the 1:250,000 reconnaissance series and the 1:50,000 basic series are available from the Topographic Survey Division. Work has begun on the National Digital Topographical Data Base. Maps are produced in response to requests from both private and public resource agencies.	Director Topographical Survey Division Energy, Mines and Resources Canada 580 Booth Street Ottawa, Ontario K1A 0G1 (613) 995-4643

ONTARIO SERVICES AND PROGRAMS

Program	*Eligibility*	*Incentive*	*Contact*
Agricultural Energy Management Program	Farmers interested in improving energy management	The program includes: on-farm demonstrations of energy-management methods and techniques; distribution of energy-management information to farmers through Ministry local offices, the media and meetings.	Your local Ontario Ministry of Agriculture and Food office OR Agriculture Energy Management Resource Centre Ontario Ministry of Agriculture and Food 801 Bay Street Toronto, Ontario M7A 2B2 (416) 965-9519
Builders' Guide to Energy Efficiency in New Housing	Canadian builders and homeowners interested in energy conservation features in new housing	The Builders' Guide to Energy Efficiency in New Housing gives the builder practical information on energy conservation in new housing. Topics such as air tightness, ventilation and moisture control are covered.	Communications Department HUDAC National Office 15 Toronto Street 10th Floor Toronto, Ontario M5C 2E3 (416) 364-4135

Dow town Programs	Owners, managers and tenants of downtown Toronto and Ottawa office buildings may join the voluntary Downtown Programs.	The Downtown Programs are designed to encourage energy efficiency in commercial buildings. The programs will assist interested parties with reducing lighting levels, establishing energy-reporting systems and setting long-term energy-reduction goals.	vntown Programs Buildings Energy Conservation Section Ministry of Energy 56 Wellesley Street West 10th Floor Toronto, Ontario M7A 2B7 (416) 965-3053
Financial Forecasting For Manufacturers	Canadian manufacturers with annual sales between $250,000 and $5,000,000	A computer analysis of all financial transactions affecting a firm is available. The analysis will provide information on areas such as future return on investment, developing and introducing new products and cost-profit relationships.	See Appendix D
Heat Save	Homeowners in designated communities can receive personal energy saving advice. During 1983-84, Heat Save Clinics are planned for Hamilton, Timmins, Guelph, Vaughan, Kenora, Trenton, Oakville and Richmond Hill	The Heat Save projects involve the operation of 'storefront' clinics. Experts will provide advice on insulation, weatherstripping and heat loss. Thermography may be used as a basis for evaluating the performance of insulation in individual homes.	Information Services Ministry of Energy 62 Wellesley Street West Toronto, Ontario M7A 2B7 (416) 965-3246

Program	*Eligibility*	*Incentive*	*Contact*
Housing Renovation and Energy Conservation Unit (HREC)	Individuals, housing developers, builders, manufacturers, municipalities and provincial and federal agencies involved with housing renovation and energy conservation may obtain technical advice and information from HREC.	HREC provides technical bulletins on a wide range of renovation and conservation topics including sealing and weatherstripping, insulation and air quality.	Housing Renovation and Energy Conservation Unit Ministry of Municipal Affairs and Housing 101 Bloor Street West Toronto, Ontario M4W 3K7 (416) 965-4073
Hydrocarbon Energy Resources Inventory Program	Resource-based industries interested in the development of coal, peat or oil shale can access data bases containing inventories of these resources in Ontario.	The program is divided into three parts dealing with lignite, peat and oil shale. Inventories or assessments of each are being prepared. Technical and economic evaluations of the development potential for these resources are being conducted.	Mineral Resources Group Ministry of Natural Resources Whitney Block Queen's Park Toronto, Ontario M7A 1W3 (416) 965-4271
Manufacturing Cost Reduction Program	Small Ontario-based manufacturers experiencing production problems	The program offers a wide range of services, including assistance with the selection of processes and methods, product development, distribution-system planning and organizational planning.	See Appendix D

Marketing Ontario Hydro Expertise	Firms engaged in the development of energy technology and engineering consulting may obtain technical assistance from Ontario Hydro.	Ontario Hydro can offer a wide range of technical expertise in a variety of energy-related areas.	Please write to: Vice-President, Marketing Ontario Hydro 620 University Avenue U2E6 Toronto, Ontario M5G 1X6
Ontario International Corporation (OIC)	Firms interested in international capital or infrastructure projects are encouraged to approach the OIC.	The OIC uses a single-agency approach to co-ordinate the activities of Ontario enterprises and international clients. This approach streamlines the process of securing foreign contracts for the private sector in Ontario.	Ontario International Corporation Hearst Block 900 Bay Street Toronto, Ontario M7A 2E4 (416) 965-3013 Telex: 062-19786
Ontario Research Foundation (ORF)	Companies requiring scientific or technological assistance may approach the ORF.	The ORF offers a wide range of technical services in the area of renewable energy and energy conservation. The ORF will assist with new product development and testing.	Manager, Energy Group Ontario Research Foundation Sheridan Park Research Community Mississauga, Ontario L5X 1B3 (416) 822-4111 Telex: 06-982311

Program	*Eligibility*	*Incentive*	*Contact*
Small Business Counselling Service by Universities	Canadian-owned small businesses requiring business-consulting services are eligible.	Business-consulting services are offered to small firms by 12 Ontario universities. Senior students in business-related programs will work with firms experiencing a wide range of problems.	See Appendix D For a list of participating universities, see Appendix E.
Small Business Management Development Program (SBMDP)	Canadian-owned small businesses requiring management upgrading are eligible for this program.	The Ministry of Industry and Trade will provide smaller communities throughout Ontario with small-business consulting teams to work with 25 locally owned and managed businesses. Advice and consultation are offered free of charge.	See Appendix D
The Joint Municipal/ Provincial Energy Conservation Program	Municipalities are eligible for energy-conservation technical advice and assistance.	Municipalities may obtain advice on a wide range of conservation topics from the Ministry of Energy. The Ministry recommends that each municipality appoint an energy co-ordinator to identify specific areas for energy savings and to establish reduction targets.	The Joint Municipal/ Provincial Energy Conservation Program Energy Conservation Group Ministry of Energy 56 Wellesley Street West Toronto, Ontario M7A 2B7 (416) 965-5743

The Joint Municipal/ Provincial Energy Conservation Program (continued)			OR Program Co-ordinator The Joint Municipal/ Provincial Energy Conservation Program Association of Municipalities of Ontario 100 University Avenue Suite 902 Toronto, Ontario M5J 1V6 (416) 593-1441
The Mineral Resources Group - Ministry of Natural Resources	Individuals, companies, universities, research organizations and government agencies may receive information on a wide range of geological topics.	The Mineral Resources Group is composed of the Ontario Geological Survey, the Geoscience Information Office and the Mineral Resource Branch. A wide range of natural resources information is available from the Group.	Please write to: Director Ontario Geological Survey Ministry of Natural Resources Room 1121 77 Grenville Street Toronto, Ontario M5S 1B3 OR Director Mineral Resources Branch Ministry of Natural Resources 99 Wellesley Street West Toronto, Ontario M7A 1W3

Program	*Eligibility*	*Incentive*	*Contact*
Transportation Energy Management Program (TEMP)	Individuals, municipalities and enterprises interested in improving motor-vehicle technology and transportation energy efficiency are eligible.	The program provides a variety of services, including information on car and van pooling, energy efficiency in the trucking industry, driver training, alternate-fuels assessment and teleconferencing.	Co-ordinator Transportation Energy Management Program Energy Conservation Group Ministry of Energy 56 Wellesley Street West Toronto, Ontario M7A 2B7 (416) 965-9297

FEDERAL/ONTARIO SERVICES AND PROGRAMS

Program	*Eligibility*	*Incentive*	*Contact*
Energy Bus Program	All industrial and commercial enterprises interested in improving the energy efficiency of heating and production processes are eligible for assistance.	The Energy Bus is a mobile industrial and commercial energy-waste detection system. The program offers on-the-spot energy-consumption analysis for companies.	The Energy Group Ministry of Industry and Trade Hearst Block 900 Bay Street Toronto, Ontario M7A 2E6 (416) 965-4356 OR See Appendix D

APPENDICES

APPENDIX A

FEDERAL BUSINESS DEVELOPMENT BANK OFFICES IN ONTARIO

Regional Office:	250 University Ave. Toronto, Ontario M5H 3E5	(416) 593-1144
Branch Offices:		
Barrie	70 Collier St. Barrie, Ont. L4M 1G8	(705) 728-6072
Chatham	59 Adelaide St. S. Chatham, Ont. N7M 4R1	(519) 354-8833
Cornwall	16 Second St. E. Cornwall, Ont. K6J 1G2	(613) 938-0593
Etobicoke	Valhalla Executive Centre 304 The East Mall Islington, Ont. M9B 6E2	(416) 239-4804
Hamilton	8 Main St. E. Hamilton, Ont. L8N 1E8	(416) 523-2954
Kenora	20 Main St. S. Kenora, Ont. P9N 1S7	(807) 468-5575
Kingston	Plaza 16 16 Bath Rd. Kingston, Ont. K7L 1H4	(613) 549-1531
Kitchener-Waterloo	Commerce House 4th Floor 50 Queen St. N. Kitchener, Ont. N2H 6P4	(519) 744-4186

London	197 York St. London, Ont. N6A 1B2	(519) 434-2144
North Bay	205 Main St. E. North Bay, Ont. P1B 1B2	(705) 476-4123
Oakville	345 Lakeshore Rd. E. Oakville, Ont. L6J 1J5	(416) 844-0911
Oshawa	22 King St. W. Oshawa, Ont. L1H 1A3	(416) 576-6800
Ottawa	280 Albert St. Ottawa, Ont. K1P 5G8	(613) 995-0234
Owen Sound	1139 Second Ave. E. Owen Sound, Ont. N4K 2J1	(519) 376-4431
Peterborough	340 George St. N. Peterborough, Ont. K9H 7E8	(705) 748-3241
St. Catharines	71 King St. St. Catharines, Ont. L2R 3H6	(416) 685-4804
Sault Ste. Marie	405 Queen St. E. Sault Ste. Marie, Ont. P6A 1Z5	(705) 949-3680
Scarborough	2978 Eglinton Ave. E. Scarborough, Ont. M1J 2E7	(416) 431-5410
Stratford	1036 Ontario St. Stratford, Ont. N5A 6Z3	(519) 271-5650
Sudbury	1 Elm St. E. Sudbury, Ont. P3C 1R6	(705) 674-8347

Thunder Bay	905 Victoria Ave. W. Thunder Bay, Ont. P7C 1B3	(807) 623-2745
Timmins	83 Algonquin Blvd. W. Timmins, Ont. P4N 2R4	(705) 264-9432
Toronto	204 Richmond St. W. Toronto, Ont. M5V 1V6	(416) 598-0341
Toronto North	4430 Bathurst St. Downsview, Ont. M3H 3S3	(416) 638-0823
Windsor	500 Ouellette Ave. Windsor, Ont. N9A 1B3	(519) 254-8626
Woodstock	514 Princess St. Woodstock, Ont. N4S 4G9	(519) 539-8121

APPENDIX B

NATIONAL RESEARCH COUNCIL OF CANADA OFFICES

Energy Inquiry Centre
Canada Institute for
Scientific and Technical
Information (CISTI)
National Research Council
Montreal Road
Ottawa, Ontario
K1A 0S2
(613) 993-3861

Industrial Research
Assistance Program
National Research Council
Suite 910
789 Don Mills Road
Don Mills, Ontario
M3C 1T5
(416) 966-5845

Industrial Research
Assistance Program
National Research Council
Room 238, Federal Building
106 Clarence Street
Kingston, Ontario
K7L 1X3
(613) 544-1537

Industrial Research
Assistance Program
National Research Council
248 Brebeuf Avenue
Sudbury, Ontario
P3C 5H1
(705) 674-0471

Industrial Research
Assistance Program
National Research Council
2535 Cavendish Blvd.
Montreal, Quebec
H4B 2Y5
(514) 482-0651

Industrial Research
Assistance Program
National Research Council
Edifice du C.R.I.Q.
333 rue Fanquet
C.P. 9038
Ste-Foy, Quebec
G1V 4C7
(418) 694-3419

Industrial Research
Assistance Program
National Research Council
1329 Niakwa Road
Winnipeg, Manitoba
R2T 3J4
(204) 255-9612

Industrial Research
Assistance Program
National Research Council
136 Crosbie Road
St-John's, Nfld.
A1A 2G4
(709) 754-1937

APPENDIX C

RETAIL SALES TAX FIELD OFFICES

BELLEVILLE
208 Dundas Street East
K8N 1E3
(613) 962-9108

HAMILTON
119 King Street West
L8N 3Z9
(416) 521-7504

KITCHENER
449 Belmont Avenue West
N2M 1N2
(519) 576-8400

LONDON
310 Wellington Road
N6C 4P4
(519) 576-8400

MISSISSAUGA
2 Robert Speck Parkway
L4Z 1H8
(416) 273-9490

NORTH BAY
1500 Fisher Street
Northgate Plaza
P1B 2H3
(705) 474-4900

ORILLIA
19 Front Street North
P.O. Box 670
L3V 4R6
(705) 325-9587

OSHAWA
33 King Street West
L1H 8J6
(416) 433-6244

OTTAWA
1355 Bank Street
K1H 8K7
(613) 523-9760

SUDBURY
199 Larch Street
P3E 1C4
(705) 675-4351

THUNDER BAY
435 James Street South
P.O. Box 5000
P7E 6E3
(807) 475-1681

TORONTO
2300 Yonge Street
10th Floor
M4P 1E4
(416) 487-1361

WELLAND
76 Division Street
L3B 3Z7
(416) 732-1318

WINDSOR
250 Windsor Avenue
N6C 4P4
(519) 433-3901

APPENDIX D

MINISTRY OF INDUSTRY AND TRADE FIELD OFFICES

CENTRAL-EAST ONTARIO

Area Office in Willowdale
(Fairview Mall)
District Office in Orillia

WILLOWDALE

Suite 480, 5 Fairview Mall
Drive
Willowdale
M2J 2Z1
Telephone: (416) 491-7680

ORILLIA

Sterling Trust Building,
2nd Floor
73 Mississauga Street East
Box 488
Orillia
L3V 6K2
Telephone: (705) 325-1363

EASTERN ONTARIO

Area Office in Ottawa
District Offices in Brockville,
Kingston and Peterborough

OTTAWA

Suite 404, 56 Sparks Street
Ottawa
K1P 5A9
Telephone: (613) 566-3703

BROCKVILLE

143 Parkedale Avenue
Brockville
K6V 6B2
Telephone: (613) 342-5522

KINGSTON

Suite 308, 1055 Princess
Street
Kingston
K7L 5T3
Telephone: (613) 547-2248

PETERBOROUGH

139 George Street North
Peterborough
K9J 3G6
Telephone: (705) 742-3459

CENTRAL-WEST ONTARIO

Area Office in Kitchener
District Offices in Hamilton
and St. Catharines

KITCHENER

Suite 507, 305 King Street
West
Kitchener
N2G 1B9
Telephone: (519) 744-6391

HAMILTON

P.O. Box 2112
119 King Street West
Hamilton
L8N 3Z9
Telephone: (416) 521-7783

ST. CATHARINES

Suite 401
15 Church Street
St. Catharines
L2R 3B5
Telephone: (416) 688-1454

SOUTHWESTERN ONTARIO

Area Office in London
District Offices in
Owen Sound and Windsor

LONDON

Suite 607, 195 Dufferin
Avenue
London
N6A 1K7
Telephone: (519) 433-8105

OWEN SOUND

Suite 104, Nor-Towne Plaza
1131 Second Avenue East
Owen Sound
N4K 2J1
Telephone: (519) 376-3875

WINDSOR

Ontario Government Building
Room 227, 250 Windsor
Avenue
Windsor
N9A 6V9
Telephone: (519) 252-3475

NORTHERN ONTARIO

Area Office in Sudbury
District Offices in Timmins,
Sault Ste. Marie, Thunder
Bay and North Bay

SUDBURY

Ontario Government
Building, 4th Floor
199 Larch Street
Sudbury
P3E 5P9
Telephone: (705) 675-4330

SAULT STE. MARIE

120 Huron Street
Sault Ste. Marie
P6A 5N7
Telephone: (705) 253-1103

TIMMINS

Suite 200, 273 Third Avenue
Timmins
P4N 1E2
Telephone: (705) 264-5393

THUNDER BAY

Ontario Government
Building, 3rd Floor
435 James Street South
Box 5000
Thunder Bay
P7E 2V6
Telephone: (807) 475-1325

NORTH BAY

Northgate Plaza
1500 Fisher Street
North Bay
P1B 2H3
Telephone: (705) 472-9660

APPENDIX E

PROBLEM SOLVING FOR ENTREPRENEURS
LIST OF PARTICIPATING UNIVERSITIES

Carleton University
School of Commerce
Carleton University
OTTAWA, Ontario
K1S 5B6
(613) 231-4373

Lakehead University
School of Business Administration
Lakehead University
THUNDER BAY, Ontario
P7B 5E1
(807) 345-2121

Laurentian University
School of Commerce and Administration
Laurentian University
SUDBURY, Ontario
P3E 2C6
(705) 675-1151

McMaster University
Faculty of Business Administration
McMaster University
HAMILTON, Ontario
L8S 4M4
(416) 525-9140 Ext. 4430

Queen's University
School of Business
Queen's University
KINGSTON, Ontario
K7L 3N6
(613) 547-2675
547-3075

Ryerson Polytechnical Institute
School of Business
Ryerson Polytechnical Institute
50 Gould Street
TORONTO, Ontario
(416) 595-5245
595-5393

University of Ottawa
Faculty of Management Studies
University of Ottawa
OTTAWA, Ontario
K1B 6N5
(613) 231-2450

University of Toronto
Faculty of Management Studies
University of Toronto
246 Bloor Street West
TORONTO, Ontario
M5S 1V4
(416) 978-3251

University of Toronto
Department of Commerce and Finance
University of Toronto
100 St. George St.
TORONTO, Ontario
M5S 1A1
(416) 978-3339

University of Western Ontario
School of Business Administration
The University of Western Ontario
LONDON, Ontario
N6A 3K7
(519) 679-3208

Wilfrid Laurier University
School of Business and Economics
Wilfrid Laurier University
WATERLOO, Ontario
N2L 3C5
(519) 884-1970 Ext. 467

University of Windsor
Faculty of Business Administration
University of Windsor
WINDSOR, Ontario
N9B 3P4
(519) 253-4232

York University
Faculty of Administrative Studies
York University
4700 Keele Street
DOWNSVIEW, Ontario
M3J 1P3
(416) 667-3875
667-3877

APPENDIX F

MINISTRY OF MUNICIPAL AFFAIRS AND HOUSING

COMMUNITY PLANNING ADVISORY BRANCH REGIONAL OFFICES

CENTRAL REGION

Community Planning Advisory Branch
47 Sheppard Ave. E., Suite 207
Willowdale, Ontario, M2N 2Z8
Telephone: (416) 224-7635
Zenith 5-2650

SOUTHEASTERN REGION

Community Planning Advisory Branch
244 Rideau St.
Ottawa, Ontario, K1N 5Y3
Telephone: (613) 566-3801
Zenith 5-2650

SOUTHWESTERN REGION

Community Planning Advisory Branch
495 Richmond St.
London, Ontario, N6A 5A9
Telephone: (519) 673-1611
Toll Free 1-800-265-4736

NORTHEASTERN REGION

Community Planning Advisory Branch
1191 Lansing Ave.
Sudbury, Ontario, P3A 4C4
Telephone: (705) 560-0120
Toll Free 1-800-461-1193

NORTHWESTERN REGION

Community Planning Advisory Branch
435 James St. South
Box 5000
Thunder Bay, Ontario, P7C 5G6
Telephone: (807) 475-1651
Zenith 5-2650

APPENDIX G

STATISTICS CANADA ENERGY PUBLICATIONS

Catalogue Number	Title	Frequency
26-006	Crude Petroleum and Natural Gas Production	M
26-206	Coal Mines	A
26-213	The Crude Petroleum and Natural Gas Industry	A
45-002	Coal and Code Statistics	M
45-004	Refined Petroleum Products	M
55-001	Oil Pipe Line Transport	M
55-002	Gas Utilities	M
55-201	Oil Pipe Line Transport	A
57-001	Electric Power Statistics	M
57-003	Quarterly Report on Energy Supply-Demand in Canada	Q
57-202	Electric Power Statistics Volume II, Annual Statistics	A
57-203	Electricity Bills for Domestic Commercial and Small Power Service	A
57-204	Electric Power Statistics Volume I, Annual Electric Power Survey of Capability and Load	A
57-204	Gas Utilities, Transport and Distribution Systems	A
57-206	Electric Power Statistics, Volume III, Inventory of Prime Moves and Electric Generating Equipment	A
57-208	Consumption of Purchased Fuel and Electricity by the Manufacturing, Mining, Logging and Electric Power Industries	A

M Monthly A Annual Q Quarterly